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### (57) Abstract

This invention provides a nucleic acid fragment encoding a gene product or portion thereof and comprising any one of: (a) a sequence selected from SEQ ID Nos 1 to 1193 from the attached sequence listings; (b) an allelic variation of a sequence as defined in (a); or (c) a sequence complementary to (a) or (b). The invention includes uses of such fragments, and gene products corresponding thereto.

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# HUMAN NUCLEIC ACID FRAGMENTS, ISOLATED FROM BRAIN ADRENAL TISSUE, PLACENTA OR BONE NARROW

This invention relates to new nucleic acid fragments encoding gene products or portions thereof, which fragments are obtainable from human nucleic acid populations, individual members of such populations being present in widely varying amounts.

Situations are increasingly arising in which it is necessary to study complex nucleic acid or polynucleotide populations. For example, it is now widely appreciated that an invaluable resource could be created if the entire sequence of the genomes of organisms such as man were determined and the information available. The magnitude of such a task should not, however, be underestimated. Thus, the human genome may contain as many as 100,000 genes [a very substantial proportion of which may be expressed in the human brain (Sutcliffe, Ann. Rev. Neurosci. 11:157 (1988))). Only a very small percentage of the stock of human genes has presently been explored, and this largely in a piecemeal and usually specifically targeted fashion.

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There has been much public debate about the best means of approaching human genome sequencing. Brenner has argued (CIBA Foundation Symposium 149:6 (1990)) that efforts should be concentrated on cDNAs produced from reverse transcribed mRNAs rather than on genomic DNA. primarily because most useful genetic information resides in the fraction of the genome which corresponds to mRNA, and this fraction is a very small part of the total (5% or less). Moreover, techniques for On the other hand, even generating cDNAs are also well known. supposing near perfect recovery of cDNAs corresponding to all expressed mRNAs, some potentially useful information will be lost by the cDNA approach, including sequences responsible for control and regulation of genes. Nonetheless, the cDNA approach at least substantially reduces the inherent inefficiencies resulting from analysis of repeated sequences or non-coding sequences in an approach which depends upon genomic DNA sequencing.

Recently, the results of a rapid method for identifying and characterising new cDNAs has been reported (Adams, M.D. et al., Science 252, 1991, pp 1651-1656). Essentially, a semi-automated sequence reader was used to produce a single read of sequence from one end of each of a number of cDNAs picked at random. It was shown, by comparing the nucleic acid sequences of the cDNAs (or the protein sequences produced by translating the nucleic acid sequence of the cDNAs) to each

other and to known sequences in public databases, that each of the cDNAs picked at random, could be unambig sly classified. The cDNAs could be classified as being either entirely new or as corresponding, to a greater or lesser extent, to a previously known sequence. cDNAs identified in this way were further characterised and found to be useful in a variety of standard applictions, including physical mapping. Unfortunately, such a process is insufficient. The longer the process is pursued with any given population of cDNAs the less efficient it becomes and the lower the rate of identification of new clones. In essence, as the number of cDNAs which have already been picked rises, the probability of picking a particular cDNA more than once increases. This difficulty is exacerbated by the wide range of abundancies at which different cDNAs can occur, which abundancies can vary by several orders of magnitude. Thus, whereas some sequences are exceedingly rare, a single cDNA type may comprise as much as 10% of the population of cDNAs produced from a particular tissue (Lewin, B. Gene Expression, Vol. 2: Eukaryotic Chromosomes, 2nd ed., pp. 708-719. New The need to avoid missing rarer species in any York: Wiley, 1980). given population presents a considerable problem.

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Various approaches (so-called "normalisation" techniques) have been tried in addressing the problem of increasing the efficiency of examination of a mixed nucleotide population, for example, such a population as is to be examined in human genome sequencing.

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Thus, a standard PCR protocol can be used to amplify selectively cDNAs which are present at extremely low levels, if there is information about the sequence of those cDNAs. If not, a primer specific to the desired cDNA cannot be constructed and the desired cDNA cannot be selectively amplified. The standard PCR method is therefore inadequate if it is desired to characterise a number of unknown genes.

A second approach involves hybridization of cDNA to genomic DNA. At saturation, the cDNAs recovered from genomic/cDNA hybrids will be present in the same abundance as the genes encoding them. This will provide a much more homogenous population than the original cDNA library, but does not entirely solve the problem. In order to reach saturation in respect of the very rare sequences, it will be necessary to use huge quantities of cDNA, which need to be allowed to anneal to large amounts of genomic DNA over a considerable periods of time. Furthermore, cDNAs which are homologous to genes which are present in multiple copies in the genome will be over-represented.

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A third approach exploits the second order reassociation kinetics of cDNA annealing to itself. After a long period of annealing, the cDNAs which remain singl stranded will have nearly the same abundance, and can be recovered by standard PCR (see Patanjali, S.R. et al., PNAS USA 88, 1991, pp. 1943-1947; Ko, M.S.H., NAR 19, no.18, 1991, pp 5705-5711). The methods disclosed in these two publications, however, suffer from notable disadvantages. They are entirely dependent on the stringent physical separation of single stranded and double stranded DNA, require an elevated number of manual manipulations in each reaction, and necessitate protracted hybridisation times (up to 288 hours in the method of Patanjali et al.)

Yet a further approach in "normalising" a nucleotide population is described in co-pending British Patent Application No 91 15407.0, filed 17th July, 1991 by MRC, and involves a PCR process in which a mixture 15 heterogenous DNA population and appropriate comprising а oligonucleotide primers is first formed and the DNA denatured, but before effecting a conventional PCR protocol the conditions are altered to allow the denatured strands of the more common DNA species to 20 reanneal together, whilst avoiding annealing of primers to the DNA strands. By this means, rarer species can subsequently be amplified in preference to the more common species.

This PCR normalisation method in general comprises the steps of:

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- (a) preparing a mixture comprising a heterogenous DNA population and oligonucleotide primers suitable for use in a PCR process, in which the DNA is denatured;
- 30 (b) altering the conditions to allow the denatured strands of the more common DNA species to reanneal, while preventing the annealing to the primers to the DNA strands;
- (c) further altering the conditions of the mixture in order to allow the primers to anneal to the remaining single-stranded DNA comprising the rarer DNA species; and
  - (d) carrying out an extension synthesis in the mixture produced in step (c).

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Advantageously, the method consists of a cyclic application of the above four steps.

It will be appreciated that the conditions may be altered by the alteration of the temperature of the reaction mixture. However, any conditions which affect the hybridisation of complementary DNA strands to one another may be varied to achieve the required result.

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Because the reannealing efficiency of any given DNA species will depend on the product of its concentration and time, the more abundant the sequence the greater the extent to which it will reanneal in any given time period. Once a DNA species has reached a certain threshold concentration it will no longer be amplified exponentially, as a significant amount will have annealed to the double stranded form before the priming step. Thus, as each individual DNA species is amplified by the process to its threshold concentration, the rate of amplification of that species will start to tail off. Eventually, therefore, all DNA species will be present at the same concentration.

The length of the reannealing step will determine how much DNA is present at the threshold concentration. Preferably, therefore, the duration of the reannealing step will be determined empirically for each DNA population.

In the PCR normalisation process in general, the DNA primers may be adapted to prime selectively a sample of the total DNA population. By using primers which will only prime a sample of the population, only that sample will be amplified and normalised. The total quantity of DNA generated will thereby be reduced, which means that the cycling times can be kept low. This ensures that the method is applicable to complex DNA populations such as cDNA populations. In addition, a first primer can be used which is adapted selectively to prime a sample of the total cDNA population, and a second primer which is a general primer. Advantageously, the general primer is oligo dT (each primed cDNA will then be replicated in its entirely, as the oligo dT primer will anneal to the poly-A tail at the end of the cDNA).

In co-pending British Patent Application No 92 14873.3, filed by MRC 13th July, 1992, a new process is described which allows the study and identification of the individual members of a mixed or heterogenous population of nucleotide sequences perhaps of varying abundance. In preferred embodiments of the said process, the starting nucleic acid population is treated by:

(a) subjecting the nucleic acid to the action of a reagent,

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preferably an endonuclease which has its cleavage and recognition sites separated, which reagent cleaves the nucleic acid so as to produce double stranded cleavage products the individual strands of which overlap at cleaved ends to leave a single strand extending to a known extent;

- (b) ligating the cleavage products from (a) with a population of adaptor molecules to generate adaptored cleavage products, each of which adaptor molecules has a cleavage product end recognition sequence and the population thereof encompassing a range of adaptor molecules having recognition sequences complementary to a predetermined subset of the sequences of the cleavage-generated extending single strands; and
- (c) selecting and separating only those adaptored cleavage products resulting from (b) which carry an adaptor of predetermined recognition sequence.

A preferred endonuclease for use in step (a) of the above process is Fok 1.

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An important feature of this process is the use of adaptor molecules. The adaptors used must have "overhanging" fragment recognition sequences which reflect or are complementary to the extending cleavage-derived sequences which the adaptors are designed to react with. It is also preferred that the adaptors used should end with a 5' hydroxyl group. The avoidance of a 5' phosphate group removes the risk of inappropriate ligation involving the adaptors.

Adaptor molecules may also contain a portion permitting specific sequence selection and separation (as in step (c) of the process) when a sequence is attached to the adaptor. For example, an adaptor can carry biotin, thereby permitting advantage to be taken of the biotin/avidin

reaction in selecting and separating desired adaptored molecules.

Additionally, adaptors preferably comprise a known and selected sequence such that specifically isolated adaptored molecules can be amplified by known techniques (such as PCR) using a primer complementary to the core sequence.

40 Preferably the adaptors are short double-stranded oligonucleotides which can be joined to the ends of cleavage products. They will have been chemically synthesised so that their sequence can be predetermined

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and so that large concentrations can be easily produced. They may also be chemically modified in a way which allows them to be easily purified during the process. As mentioned above, ideally their 5' ends will be unphosphorylated so that once joined to fragments the adaptored end of the latter will no longer be able to participate in further ligation reactions.

It is preferred that the adaptor cleavage product end recognition sequences are on the 5' end of the longest oligonucleotide strand making up the preferred adaptor molecules, are at least 3 nucleotides in length and with totally random bases at the single-stranded position(s) two nucleotides in from the 5' end. This then allows selection to be performed both during the joining reaction and during subsequent priming reactions. Then, because the final degree of selection is a result of the product of the degrees of selection achieved at these two stages, maximum selection can be achieved per adaptor/primer available.

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Adaptor strand extensions on the 5' end of the longest oligonucleotide also facilitate the use of modified oligonucleotides for separation purposes. Preferably, the short oligonucleotide will be modified at its 5' end. This has the double benefit of requiring just one modified oligonucleotide for all possible single-stranded extensions that are used, and also placing the modification at a position where it cannot interfere with ligation or subsequent priming reactions.

Although only one type of adaptor is required per ligation reaction, it is preferred that adaptors covering all possible reactions in a chosen subset of sequences be present, because then the opportunity for fragments in the chosen subset to ligate to each other is minimised. It is also preferred that the chosen specific adaptor, carrying a predetermined recognition sequence, should not only be different from the other adaptors in its single-stranded extension, but also different in the rest of its sequence since this allows orientation to be introduced which is useful in subsequent steps. It is therefore also preferred that this adaptor has a modified oligonucleotide to facilitate its separation with the cleaving products to which it joins.

The above "adaptoring" process can be used to generate categories or subsets of sequences by making some of the adaptors specific in some way, and selecting and separating as in step (c). In this way subsets of sequences can be provided depending upon the specific adaptor

chosen, e.g. for use in subsequent nucleotide sequencing. This facilitates, for example, the identification of a large population of sequences by permitting a rational approach to splitting such populations into subsets, each of which subsets can be examined in turn.

In the light of these developments, the present invention now provides a nucleic acid fragment encoding a gene product or portion thereof and comprising any one of:-

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- (a) a sequence selected from SEQ ID Nos 1 to 1193;
- (b) an allelic variation of a sequence as defined in (a);
- 15 (c) a sequence complementary to (a) or (b).

In another aspect, the invention provides a nucleic acid sequence as set out in any one of SEQ ID Nos 1 to 1193, or a complement or allelic variation thereof. Preferred sequences exhibit no more than 90% homology to a human sequence known per se.

In a further aspect, the invention provides a nucleic acid fragment comprising a portion of a sequence as defined above of sufficient size such that a probe of the same size and exhibiting complementarity to said portion can hybridise to said sequence. Preferably, such portions are at least 15 bases in length. It will be appreciated that minor mismatches in the aforesaid "complementarity" are not excluded provided hybridisation can still occur. In general, hybridisation conditions are within the choice of the skilled person, but reference can be made, for example, to the following: Melting temperature of hybrids -Bolton, E. T. and McCarthy, B. J. Proc. Natl. Acad. Sci, 48 p1390 (1962). Effect of formamide on lowering melting temperature - Casey, J. and Davidson, N., Nucleic Acids Res. 4, p1539 (1977). Effect of imperfect homology - Bonner, T. I. et al., J. Mol. Biol. 81, p123 (1973). General - Meinkoth, J. and Wahl, G. Anal. Biochem. 138, p267 (1984). Oligo hybridization and washing - Lathe, R. J. Mol. Biol. 183, P1 (1985).

The present invention also envisages DNA constructs comprising 40 fragments or sequences as referred to above with a control or regulatory sequence.

The invention includes such DNA constructs using a gene system known in the art ligated to a sequence or fragment of the invention so as to enable, upon expression, the provision of a fusion polypeptide. Preferably, an endopeptidase recognition site is provided such that when the sequence or fragment is expressed it is expressed in frame with a known protein with the boundary being a cleavage site for an endopeptidase with a rare cutting site. The known protein can then be affinity purified, and the peptide corresponding to the fragment or sequence in accordance with the invention may be released by the endopeptidase. Alternatively, the whole protein can be used to raise antibodies which can then be screened for those directed at polypeptide corresponding to the fragment or sequence of the invention.

Since the present fragments and sequences can be used to produce, inter alia, corresponding genes, whether by isolating them, by synthesis or otherwise, such use and the resulting DNA fragments comprising genes are further aspects of the invention.

Yet another aspect of the invention is an expression vector comprising a fragment, sequence, gene-comprising DNA fragment, or DNA construct, as above, positioned such that that nucleic acid sequence which encodes the polypeptide corresponding to said fragment, sequence or DNA fragment is in operable reading frame with a control or regulatory sequence.

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Other aspects of the invention are host cells incorporating a sequence, or fragment, or gene-comprising DNA fragment, or DNA construct, as above, as a heterologous part of the expressible genetic information of the cell. The production of such modified host cells can be achieved using methods known in the art. Such modified host cells can be used to express corresponding proteins, and these materials lend themselves in turn to the preparation of corresponding monoclonal or polyclonal antibodies using standard techniques.

Also included in this invention are such antibodies. Reference can be made, inter alia, to the following literature: Monoclonal antibodies, Cambell, A. M. Laboratory Techniques in Biochemistry, and Molecular Biology Ed. Burdon, R. H. and van Knippenberg, P. H. vol 13. Elsevier Amsterdam 1984. Goding, J. W., Monoclonal antibodies: Principles and Practice, 2nd Edition, academic Press, London 1986. Kipps, T. J. and Herzenberg, L. A., Handbook of Experimental Immunology: Applications of immunological methods in biomedical sciences, 4th edition Ed. Weir,

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D. M. et al., p108 Blackwell scientific Publications, Oxford. Harlow, E and Lane, D. Antibodies, A Laboratory Manual, Cold spring harbor Laboratory, Cold Spring, New York.

5 Expression in an appropriate higher eucaryotic host may be important to ensure correct protein folding and also activity. Expression to avoid copurification of toxic products can sometimes be better performed in organisms approved for human consumption, eg prokaryotic Bacillus subtilis, eurkaryotic yeast, mammalian cows milk vectors, and other methods known in the art.

The invention also includes novel gene products or portions thereof encoded by a fragment, sequence or gene-comprising DNA fragment of the invention.

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It will be appreciated that the sequences of the present invention collectively have utility based, inter alia, upon their common origin, and hence they can effectively be considered together rather than as separate entities. It is convenient to represent them as separate sequences, because this is how they were produced and serves as "punctuation" between the different functional entities which each sequence represents. However, the sequences could just as easily have been presented as a continuous sequence derived by placing them end to end in the order in which they were produced, with a separate indication of where the beginnings and ends of the component sequences are.

In contrast to investigations hitherto, where gene fragments (sequence fragments) could only be identified through some known characteristic [for example: their homology to a fragment which largely encodes amino acids identified by sequencing a previously isolated peptide or is the antisense of that coding sequence; or them having at least partial homology to previously characterised nucleic acids; or them having ability to encode expressed proteins which could later be detected by functional assays of the cells expressing those proteins or by using antibodies which had been previously raised against the proteins to detect their expression, Sambrook J., et al., Molecular Cloning CSH Press 1989), the sequences and fragments described by the present invention are entirely underivable and unpredictable from the prior art, but are nonetheless clearly of great value for various purposes.

Thus, such sequences, by comparing them to sequence databases, can be

used as a means for determining the existence of new members of existing gene far lies, new human genes when previously only non-human and new genes when previously no genes were known genes were know (Karlin, S. and Altschul, S. F. Proc. Natl. Acad. Sci. 87 p2264-2268 (1980)). In all cases, this allows the isolation of the corresponding genes and their products, and hence enables the manufacture of molecules of potential biological interest by recombinant means. Screening libraries of known materials or hitherto unexplored source materials for biological efficacy is now an important industrial activity in the search for new therapies and therapeutics. When new sequences have already been found to have counterparts in gene families or in non-human genes then knowledge about biological efficacy may already be apparant. For example, new receptors or receptor agonists/antagonists may exhibit differences to known instances of these molecules, and such differences could make them more suitable as therapeutics by, for example, exhibiting binding characteristics which are more in keeping with avoidance of toxicity. Reference can be made, for example, to polymorphic dopamine receptors and the implications for mental health (Iversen, L. Nature 358, p109 (1992), and Van Tol, H. M. M. et al., Nature 358, p149-152 (1992)). Where absolutely required, realisation of full length cDNAs for expression can be achieved by using the sequences to screen (by hybridisation) suitable cDNA libraries containing full length clones (D'Alession, J. M., et al., Focus (Gibco B.R.L) 9 pl (1987)). Alternatively, the sequences can be used to design primers suitable for obtaining the missing sequences by PCR or other amplification methods (Frohman, M. A., Dush, M. K. and Martin, G. R., Proc. Natl. Acad. Sci. 85 p8998-9002 (1988)).

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Appropriate use of the sequence fragments in antisense or triple helix (Griffin et al., Science 245 p967-971 (1989)) applications will be useful for identifying manipulable targets related to disease. For example, viruses have been inhibited by antisense RNA to their mRNAs (Chang, L-J., and Stoltfuz, C. M. J. Virol. p921-974 (1987)). A similar effect could be achieved by targetting the expression of cellular proteins which are essential for growth or maintenance of the virus.

Partial or full length cDNAs have great utility once expressed. The manner of expression can be selected by one skilled in the art to suit the intended application. Expression of full length cDNAs is typically required for biological activity. Procaryotic, and lower or higher eucaryotic hosts may be selected as the host for expression and higher

eucaryotes may be preferred to ensure correct modifications, for example, glycosylation in vivo, when this proves to be important. Expression can be ensured by situating the cDNA appropriately to signals for expression (Amann, E. and Brosius, J. Gene 40 p183 1985), Shimuzu, Y et al., Gene 65, p141 (1988), Straus, D. and Gilbert, W. Proc. Natl. Acad. Sci. 82, p2014 (1985)). Such signals may include a promoter for transcription, which may itself be regulatable.

The proteins thus-expressed can be screened for activities of therapeutic or commercial value. It may be that the proteins have to be first isolated for this purpose or can be assayed in situ. It may be desirable that some means of stabilising the expressed protein is employed. This can be achieved, for example, (and as indicated earlier) by expressing in frame as part of a fusion polypeptide (Smith, D. B., et al., Proc. Natl. Acad. Sci. 83 p8073 (1986)).

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Useful antibodies can be raised against the expressed proteins. It is commonly not an absolute requirement that full length proteins are produced, although this may influence the quality of the antibodies produced. Peptides as short as 8 or 9 amino-acids in length can be used as antigens (Germain R., N. Nature 353 pp605-607 (1991), Rudensky, A., Y., et al., Nature 353 p622-627 (1991)). Immunogenic peptides could simply be synthesised using the amino-acid sequence translated from a sequence or fragment of this invention. It is desirable, although not absolutely required, that some means of producing purified antibodies is adopted. When fusion polypeptides are used to raise antibodies, an affinity matrix specific for the generic part of the protein allows the fusion polypeptide to be immobilised (Smith, D. B., et al., Proc. Natl. Acad. Sci. 83 p8073 (1986)). The immobilised polypeptide can then be used to affinity purify the antibodies. Antibodies to both the generic part of the fusion polypeptide and the part of interest are produced. When these need to be discriminated between, a different affinity column can be used to remove only those antibodies specific for the generic part of the polypeptide. Alternatively, and as mentioned earlier, it can be arranged that the boundary between the two separate protein components of the fusion polypeptide has the recognition sequence for an endopeptidase with a rare cutting site. The peptide of interest can then be released from the affinity purified polypeptide by the action of the endopeptidase (Nagai, K., and Thogersen, H., C. Methods Enzmol. 153 p461-481 (1987). Another alternative is raise monoclonal antibodies against the purified protein.

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The antibodies can be used for localising in situ, or quantifying in samples through, for example, ELISA or RIA assays, peptides against which they were raised. These uses are particularly beneficial when the results of the assays can be correlated to a disease condition, eg For example tumour markers may be found and used to target The antibodies can also be used to detect or therapeutic agents. monitor markers of undifferentiated growth, infection, cardiovascular or immune disease or a therapeutic response. When the antibodies recognise cell surface proteins they can be used in isolation or in combination to isolate particular populations of cells. These in turn can be used to isolate yet more cDNAs which will be enriched for yet more of such surface markers for the population, which, if similarly screened, will permit yet further subdivision of the population. Ultimately, panels of antibodies which can describe particular disease states will accrue. Such antibodies could be tailored for forensic applications as well as diagnostic purposes and disease monitoring.

The sequences or fragments can also be used for genetic analysis and mapping, for example, to diagnose the likelihood that a given individual is predisposed towards a given genetic disease. In the event of a sequence co-locating, genetically, with a disease gene, it can be used for the derivation of new disease therapies bases upon precise genetic knowledge. Such therapies can include, for example, the techniques of so-called "gene therapy" (Dusty Miller, A. Nature 357 p455-460 (1992)).

Antibodies can be produced against the protein of a genetic disease with sufficient discriminating power to discriminate between diseased and non-diseased states (Caskey, T. Genome Sequencing Conference, Hilton Head, S. Carolina (1991)). This would be useful for reducing the dependence of such tests on nucleic acid-based screens. Such antibodies also have the advantage of allowing detection of faulty expression of the protein, for example levels of expression which may be important for development of the disease in slow onset conditions.

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Also very important is that not all cDNAs are likely to be found by conventional means, whereas the present sequences are, in one sense, "comprehensive". The use of the class of cDNAs which corresponds of necessity to truncated clones increases the chances that part of a cDNA will be cloned free of any sequences that could otherwise compromise it from being cloned. Sequence obtained can then be used to generate PCR primers from which the remainder can be obtained without having to

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clone.

This invention will now be further described and illustrated by means of the following Examples.

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All oligonucleotides used in these Examples were synthesised Trityl on using an ABI 380B DNA Synthesizer according to the manufacturers instructions. Purification was by reverse phase HPLC (see, for example, Becker, C., R., et al., J. Chromatography 326, p293-299 (1985)).

### Example 1

Human brain and adrenal tissues were obtained from a mixture of 12 to 15 week menstrual age foetuses and then snap frozen in liquid nitrogen before storing in bijou bottles in a -80°C freezer. The two types of tissue were used separately, directly from the freezer, to prepare cDNA from which restriction fragments were generated for sorting into subsets. 1g portions of each of the separate tissues were homogenised, using an Ultra-Turrax T25 Disperser (Janke and Kunkel, Labortechnik), on ice in the presence of 4M guanidinium isothiocyanate to solubilise macromolecules. RNA was isolated from each homogenate by using centrifugation to sediment it through caesium trifluoroacetate. This was performed using the Pharmacia kit according to the manufacturer's instructions, except that centrifugation was performed for 36 hours and the RNA obtained was finally desalted and concentrated by performing two ethanol precipitations in succession with two 70% ethanol washes after each precipitation. In each case, polyA (mRNA) was isolated from 200 to 400 µg of the total RNA by binding it to magnetic oligo-dT coated beads (Dynal). Solution containing unbound material was removed from the beads, which were washed, and then mRNA eluted directly for use. mRNA isolation was performed in accordance with the manufacturer's instructions. Yields of RNA from the beads were between 1 and 3% of the total RNA. 2 to 4  $\mu g$  of the eluted RNA were used for cDNA synthesis. cDNA synthesis was performed according to the method of Gubler, U and Hoffman, (B. J. Gene 25 p263 (1983) using a Pharmacia kit according to the manufacturer's instructions. OligodT was used to prime the first strand cDNA synthesis reaction. The cDNA was purified by extracting twice with phenol/chloroform and then low molecular weight solutes including nucleic acids below ca. 300 bases were removed by passing the cDNA reaction mixture through a Pharmacia S400 spun column used according to the manufacturer's

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instructions. Running buffer for the column comprised 10 mM TrisHCl, 1 mM EDTA, 50 mM NaCl @ pH 7.5.

The column eluate was adjusted to 10 mM  $Mg^{2+}$  and then the purified cDNA was restricted by the action of 1 unit per 10  $\mu$ l of the endonuclease Fok I at 37°C for 1 hour, so that it would be able to accept adaptors to enable fragment sorting.

The cDNA fragments were purified by two successive phenol/chloroform extractions followed by passing them through S400 spun columns as described above.

The adaptors used were oligonucleotides 5' N,N,N,N,TCCTTCTCCTGCGACAGACA (SEQ ID: 1194) with the complementary strand 5' TGTCTGTCGCAGGAGAAGGA 15 (SEQ ID: 1195) and 5' AAN4NATCTCGGACAGTGCTCCGAGAAC (SEQ ID: 1196) or 5' TTN4N4TCTCGGACAGTGCTCCGAGAAC (SEQ ID: 1197) each with the complementary 5' biotinylated strand GTTCTCGGAGCACTGTCCGAGA (SEQ ID: 1198). These were added to 25% of the eluted material by incubating together 200 pmoles of the mixture of double-stranded adaptors in the elution buffer 20 to which had been added MgCl<sub>2</sub> to 10mM, ATP to 10mM and 0.025 units/ $\mu$ l **T4** DNA ligase. The oligonucleotide 5' biotinylated GTTCTCGGAGCACTGTCCGAGA, (SEQ ID: 1198) and whichever of the complementary oligonuclectides with which it was used, each comprised 1/32 of the molar proportion total adaptors. The final reaction volume was 90  $\mu$ l which was heated to 65°C for 3 minutes and then cooled to 25 room temperature before the ligase was added. Ligation was performed for 16 hours at 12°C.

Two successive phenol/chloroform extractions were performed to remove the ligase. The final aqueous phase was passed through an S400 spun column (Pharmacia) as described above except that the column was used with 10 mM Tris pH 8.3/50 mM NaCl.

The column eluate was adjusted to 25mM Mg2+, 0.5mM dNTPs in a final volume of 200  $\mu$ l. The mixture was placed in a thermocycler (Techne MW2) and heated to 78°C for 5 minutes. At this point 10 units of cloned Taq DNA polymerase (AmpliTaq, Perkin Elmer) were added. This was followed by an incubation at 72°C for 10 minutes to fill in the unligated strand of the adaptor. After the second incubation 200  $\mu$ l of streptavidin coated magnetic beads (Dynal) prepared according to the manufacturers instructions were added to bind cDNA ligated to that of the oligonucleotides which was complementary to the 5'

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GTTCTCGGAGCACTGTCCGAGA (SEQ ID: 1198) biotinylated adaptor. Bead binding was allowed to proceed at 28°C for 30 minutes with mixing every 10 minutes.

5 Un-biotinylated cDNAs were washed from the beads with  $400\mu l$  each of 2M NaCl twice, fresh 0.15 mM NaOH four times at  $28^{\circ}C$  for 5 minutes each, water twice and finally a buffer comprising 20 mM Tris pH 8.3, 50 mM NaCl, and 25mM Mg<sup>2+</sup>. The beads were then resuspended in 240  $\mu l$  of the final buffer including additionally 0.5 mM dNTPs and divided into 4x60  $\mu l$ .

Four of the 60 µl aliquots, two from each tissue, were processed further specifically to prime and copy a subset of the immobilised, adaptored fragments. 2 pmoles of the primer 5' CTGTCTGTCGCAGGAGAAGGAA (SEQ ID: 1201) were added to each of two aliquots, one from each tissue. 2 pmoles of the primer 5' CTGTCTGTCGCAGGAGAAGGAG (SEQ ID: 1202) were added to each of the other two aliquots. 2.5 units of Taq DNA polymerase were added to each reaction and 16 cycles of alternate denaturation at 95°C for 30 seconds, annealing at 63°C for 2 minutes and polymerisation at 72°C for 3 minutes was performed to accumulate the selected single-strands in solution.

On completion of the DNA synthesis reactions a further 30  $\mu$ l of resuspended beads were added to each reaction to remove the biotinylated fragments. The reaction was incubated at 28°C for 30 minutes mixing every 10 minutes to ensure that the biotinylated strands were bead bound. Each aqueous phase containing the newly synthesised strands was then removed and extracted with phenol/chloroform twice to remove the enzyme before being further purified by passing through an S400 spun column equilibrated with 10 mM Tris pH 8.3/50 mM NaCl as described above.

Rounds of PCR amplification of subsets of the selected fragments were performed by using the original primer in each case, together with one of the primers 5' GTTCTCGGAGCACTGTCCGAGAG (SEQ ID: 1199) or 5' GTTCTCGGAGCACTGTCCGAGAC SEQ ID: 1200). This simultaneously rendered the fragments double-stranded and increased the amounts of available material. It was not known how many cycles of amplification would be required at this stage, since each primer pair would be expected to behave differently. It was therefore necessary directly to determine a suitable number empirically by using standard agarose gel electrophoresis to examine the reaction products after a given number

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of cycles. In some cases, to avoid the accumulation of non-specific products, it was necessary to perform an initial 5 cycles of amplification with both of the primers present at 2 pmoles each. All reactions were performed using 8  $\mu$ l or 12.5 % whichever was the larger but not exceeding 12  $\mu$ l of the column effluent above. Reaction conditions were adjusted to 20 mM Tris pH 8.3, 50 mM NaCl, 25mM Mg²+, 0.5mM dNTPs and 2.5 units of Taq DNA polymerase in a final volume of 40  $\mu$ l. Apart from when an initial amplification with 2 pmoles of each primer was performed, 20 pmoles of each primer were used. Cycles of amplification were performed at 95°C for 30 seconds, 65°C for 1 minute and 72°C for 3 minutes.

For the purposes of cloning, selected cDNA was amplified as described immediately above, except that the reaction was not monitored. Instead, the number of cycles which had previously been shown to just give rise to all observable products plus another 4 cycles were performed. In addition, an extra 72°C for 10 minutes incubation was performed after the last cycle.

The products of the reaction were then prepared for directional cloning. Water was added to adjust the final reaction volume to 60  $\mu$ l. Enzyme was removed by two successive phenol/chloroform extractions. The final aqueous mixture was passed through an S400 column as described above, except that it had been equilibrated with 10 mM Tris HCl pH 7.5, 50mM NaCl.

For directional cloning, advantage was taken of the different known sequences introduced at each end of the selected cDNAs by the adaptors in a modification of the method of Aslandis, C. and de Jong, P. J. (Nucl. Acids Res. 18, p6156 (1990)). Different cohesive ends were produced on each end by using the exonuclease activity of T4 DNA polymerase to resect from the 3' end, to the first T in each case. To 75  $\mu$ l or 75 % of the column eluate, whichever was least, were added 9.5  $\mu$ l of 100mM TrisHCl pH7.4, 100 mM MgCl2, and 9.5  $\mu$ l of 0.5 mM dTTP. 16 units of T4 DNA polymerase were added and the reaction incubated in a water bath at 37°C for 30 minutes. The enzyme was removed by extracting with phenol/chloroform, twice successively. The salt of the final aqueous phase was adjusted by passing it through an S300 column (Pharmacia) equilibrated with 10 mM TrisHCl pH 7.4, 1 mM EDTA as described above.

The E.coli plasmid cloning vector pBluescript KS+ (Alting-Meese, M. A.

and Short J. M., Nucl. Acids Res. 17 p9494) was prepared for accepting the resected cDNA by restriction cleavage at the BamHI and HindIII sites and then adaptoring the resultant cohesive ends using the specific adaptors produced by the oligonucleotide 5' AGCTCGGCTCGAGTCTG (SEQ ID: 1203) with its partially complementary oligonucleotide 5' GCGACAGACAGCAGACTCGAGCCG (SEQ ID: 1204) and the oligonucleotide 5' GATCCGGCTCGAGT (SEQ ID: 1205) with its partially complementary oligonucleotide 5' CCGAGAACACTCGAGCCG (SEQ ID: 1206). Preparation of the vector and adaptoring were performed according to standard procedures. Insertion of the cDNA was performed between the BamHI and HindIII restriction sites. Recombinant vectors were transformed into the host XL1-Blue (Bullock, W. O. et al Biotechniques 5 p376-378 (1987)) by the method of Hannahan, D. J. (Mol. Biol. 166 p577-580 (1983)). Suitable standard controls for the ligations and transformations were also included.

Post transformation procedures were as described in "Molecular Cloning", 2nd Edition (Sambrook J., Fritsch, E. F., and Maniatis, T. CSH Press (1989)). Colonies were produced by plating onto X-gal/IPTG L-agar plates containing  $50\mu g/ml$  ampicillin and  $10\mu g/ml$  tetracyclin. Clear colonies were picked, each into a separate well of a microtitre plate, containing  $100\mu l$  of L-broth and  $50\mu g/ml$  ampicillin. Growth was allowed to occur for 16 hours at  $37^{\circ}$ C.  $100\mu l$  of 50% or 30% glycerol was added to plates which were archived at -20%C or -80%C, respectively.

Bacteria corresponding to those archived were used for preparing templates for sequencing by the dideoxy method (Sanger, F. Milklen, S. and Coulson, A. R. Proc. Natl. Acad. Sci. 74 p5463-5467 (1977)). Bacteria for this purpose were either grown on L-agar plates containing 50µg/ml of ampicillin, prepared at the same time as they had been grown in liquid culture, or after plating out from the archive. Alternatively, fresh liquid cultures were inoculated from the archive. In all cases, cDNA inserts were amplified for sequencing by PCR (Saiki, R. K. et al Science 239 p487-491 (1988)). PCR was either performed using bacteria directly added to the reaction, by a toothpick, or PCR was performed using 1/50th of the plasmid isolated by preparative methods (Holmes, D. S. and Quigley, M. Anal. Biochem. 114 p193 (1981)) from the bacteria in the liquid cultures or from the plates.

20 pmoles of each of the PCR primers 5' biotinylated GTAAAACGACGGCCAGT

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(SEQ ID: 1207) and 5' CGAGGTCGACGGTATCG (SEQ ID: 1208) were used in  $40\mu l$  reactions containing 2.5mM Mg<sup>2+</sup>, 50 mM KCl, Tris-HCl pH 8.3 and 0.25 units of Amplitaq (Cetus). Reactions were performed at 95°C, for 1 minute, followed by 35 cycles at 95°C for 30 seconds, 60°C for 30 seconds and 72°C for 40 seconds. After the cycles, a final incubation at 72°C for 5 minutes was performed.

After PCR, standard agarose gel electrophoresis was used to determine which reactions had been successful. The biotinylated strands of successful reactions were then recovered for single-stranded sequencing by binding them to steptravidin coated beads (Dynal) and then washing, all according to the manufacturers instructions, except that the washing steps were either performed manually or performed automatically in the 96 well microtitre plate format using a Biomek robotic workstation attached to a side-arm loader (Beckman).

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Dideoxy chain termination sequencing reactions were performed using the immobilised, biotinylated strands as templates and 2 pmoles of the oligonucleotide 5' CGAGGTCGACGGTATCG (SEQ ID: 1209) as primer. 20 Reactions were performed using fluorescently-labelled terminators (Du Pont) or a fluoroscein-labelled primer (Pharmacia) according to the manufacturers instructions. Reactions were analysed using automated DNA sequencers. A Genesis 2000 was used for the "Du Pont" reactions and an A.L.F. for the "Pharmacia" reactions. Bases were assigned for 25 the Genesis 2000 reads using the manufacturers Base Caller software. Files of called bases were then transferred to a SUN Network from an Apple Macintosh computer which had been used for base calling. data from the A.L.F. reads was directly transferred to a SUN network where bases were called using the public domain "trace editor software" 30 In both cases, files of called bases were entered into a Sybase $^{TM}$  database. Entering data entailed automatically removing vector and adaptor or linker sequences, but not editing ambiguous bases. After removal of the unwanted bases, files were automatically compared to other sequences in the cDNA database and the latest versions of the 35 publically available databases, GENBANK and SWISSPROT. Searches were performed with the "basic local alignment search tool" (BLAST) (Karlin, S. and Altschul, S. F. Proc. Natl. Acad. Sci. 87 p2264-2268 (1990)).

Sequences SEQ ID Nos 1 to 610, given hereinafter, were obtained by the 40 above procedure.

#### Example 2

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A second method of preparing cDNA libraries for obtaining gene fragments of the invention took advantage of the PCR normalisation process described above. Standard procedures were used to prepare mRNA from RNA that had been isolated by standard caesium chloride bouyant density gradient methods from a full term human placenta. The oligonucleotide LNotdt, sequence 5' TACGTTCGACAAGCTTGAATTCGCGGCCGC(T) $_{26}$ , (SEQ ID: 1210) was used at 1  $\mu$ M with AMV reverse transcriptase, to prime first strand cDNA synthesis under standard conditions from 0.5  $\mu$ g of the placental mRNA. Temperatures above 65°C were used to inactivate the reverse transcriptase and then the volume of the reaction made up to 100  $\mu$ l with water.

PCRs were then performed in reactions containing 1 µl of the diluted cDNA, 10 mM Tris-HCl pH 8.3, 40 mM KCl, 1.5 mM MgCl<sub>2</sub>, 0.01% gelatin, 200 µM dNTPs, 10 uCi a<sup>32</sup>P dCTP, 1 µM each of the primers llADl, sequence 5' GCC(TA)(GC)CGCCGA (SEQ ID: 1211), and LNotdT and Taq DNA polymerase. An initial denaturation period of 95°c for 90 seconds was followed either by 35 cycles of standard PCR, comprising 95°C for 30 seconds, 45°C for 30 seconds and 72°C for 30 seconds or alternatively 3 cycles of the standard PCR already described followed by 27 cycles of Cot PCR during which an additional step of 72°C for 16 minutes was placed between all of the 95°C and 45°C steps of the standard PCR. The standard PCR was followed by a single 72°C for 3 minutes step while the Cot PCR was followed by one standard PCR cycle except that the 72°C incubation was performed for 3 minutes.

Products of the PCR reaction were end repaired by adding 5 units of T4 DNA polymerase to the reaction and then incubating at 37°C for 10 minutes. Enzymes were removed by phenol extraction. The cDNA was precipitated by 70% ethanol, dried and then resuspended in NotI buffer. 20 units of NotI were used to digest the cDNA under standard conditions. cDNA was again phenol extracted and ethanol precipitated. 10% of the purified NotI cut DNA were ligated to the vector pBluescript lting-Meese, M. A. and Short J. M. Nucl. Acid Res. 17 p9494 which had been prepared as standard to receive this DNA by restricting with the enzymes NotI and EcoRV. Transformation and processing of clear colonies was performed as described above except that the host E.coli strain DH5a was used in place of XL-1 Blue.

Preparation of clones for sequencing, sequencing and sequence analysis of cDNAs in clones thus-produced were performed as described in Example 1.

Sequences SEQ ID Nos 611 to 772, given hereinafter, were obtained by the above procedure.

### Example 3

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cDNA libraries corresponding to adult brain cortex (Clontech Laboratories, Inc., Cat No. HL10036) and adult bone marrow (Clontech Laboratories, Inc., Cat No. HL10586) prepared in lambda gtll phage were transfected into <u>E.coli</u> Y1090 and plated out for colour selection of recombinant plaques ("Molecular Cloning", 2nd Edition Sambrook J., Fritsch, E. F., and Maniatis, T. CSH Press (1989)). 192 lambda Zap clones, corresponding to rhabdomyocarcoma cDNAs and a gift from C. Cooper, ICR, Sutton, were similarly plated except that the host XL-1 Blue was used.

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Clear plaques from each library were resuspended in 5  $\mu$ l of Tris-HCl pH 8, 1 mM EDTA. 2  $\mu$ l of the resultant phage suspensions were added directly to PCRs for the purpose of amplifying the cDNA inserts for sequencing. PCR was performed as described in Example 1, except that the oligonucleotides used as primers for the lambda gtll clones were 5' GGTGGCGACGACTCCTGGAGCCCG (SEQ ID: 1212) and 5' TTGACACCAGACCAACTGGTAATG (SEQ ID: 1213). Whichever of the oligonucleotides was to be used to prime the strand which would serve as the sequencing template was used in biotinylated form.

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Preparation of clones for sequencing, sequencing and sequence analysis of cDNAs in clones thus-produced was performed as described in Example 1, except that 2 pmoles of the primers that were unbiotinylated in the PCR were used as sequencing primers.

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Sequences SEQ ID Nos 773 to 1193, given hereinafter, were obtained by the above procedure.

The following are the SEQUENCE LISTINGS which comprise sequences SEQ ID

Nos 1 to 1213 referred to hereinbefore. Certain of these sequences are preferred, and are listed as such after the main SEQUENCE LISTINGS.

PCT/GB93/01467

	(1) GENERAL INFORMATION	
	(i) APPLICANT	
	(A) NAME: MEDICAL RESEARCH COUNCIL	
· 5	(B) STREET: 20 PARK CRESCENT	
	(C) CITY: LONDON	
	(E) COUNTRY: ENGLAND	
	(F) POSTAL CODE: WIN 4AL	
10	(ii) TITLE OF INVENTION: HUMAN GENOME SEQUENCES	
	(iii) NUMBER OF SEQUENCES: 1213	
	(iv) COMPUTER READABLE FORM:	
15	(S) WEDTHY MUSE. DISYRED	
	(A) MEDIUM TYPE: DISKETTE	
	(B) COMPUTER: IBM PC COMPATIBLE	
	(C) OPERATING SYSTEM: MS-DOS	
	(D) SOFTWARE: EXTRACT	
20	(2) INFORMATION FOR SEQ ID :1:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 264 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1:	
	GCCGATTCGT GACCAAGAAG GCTCTGTGCA TTCGGGTTTT CCAGGAGACT	50
35	CAAAAGCTGA AGAAGCGAAG AAGAGCCTTA AAGGCTGCAG CAGCAGCTCA	100
	ATARACARGE ARAGEGGAGG RACCERGACA GECETTETEE ARAGECATAC	150
	CAATATGATC TATCTTCTAA TGTATCCATG TTGTAATTAT ATATGTGTCT	200
40	GTGTGTGTCG AAATCTCTAG ACATACAGAT ATATATTCAT ATATCATATA	250

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••	TATATATATA CACA	264
	(2) INFORMATION FOR SEQ ID :2:	
5	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 124 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li></ul>	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :2:	
15	AGGAACATGT GTTTATTCAT CCAGCAGTGT TGCTCAGCTC CTACCTCTGT	50
	GCCAGGGCAG CATTTTCATA TCCAAGATCA ATTCCCTCTC TCAGCACAGC	100
	CTGGGGAGGG GGTCATTGTT CTCT	124
20	(2) INFORMATION FOR SEQ ID :3:	
25	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 333 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :3:	
	ACAGAGCCGA TTCTGCATCC ACTGTGGTCA ACATTTAGGA AGTTTTAAGC	50
35	TAAGATTTGC CAAATTGTAG CCTACTGGAT TCCGGTTCTC TTGACATCTC	100
	TTTCTAGTAG CCATGTCTTG CACTTCCCGA GTATAAACGA ACTGAGATGC	150
	AAATTAAAAA AGGGAGGATT TAGAATAATG AAAAGAGAAA AGTCAAGAAA	200
40	GCACAATCAC TAGTGTAGAG ATAACAGAAT TTCTGAATTC CCTGAAAGCA	250

	ATCTATATAA ATGCATGTGA AATAATACAC CAGCATCTGT GGCCCATACG	300
•	TCACATATTA GGAACTGATA ACATAAGGTA AAC	333
5	(2) INFORMATION FOR SEQ ID :4:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 200 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :4:	
	AGGGAGAAAG GAACATCCGC GAACAGCCAA AGAAATCTCA GAAGAGTCCC	50
20	GGAGCTCAAG GATCAGAGTA ACACAATTTT CACTTTTTCT GTCTTTATGT	100
	AAGAAGAAAC TGCCTAGATG ACGGGGCCTC CTTCTTCAAA CAGGAATTTC	150
	TGTTAGCAAT ATGTTAGCAA GAGAGGGCAC TCCCAGGCCC CTGCCCCCAT	200
25	(2) INFORMATION FOR SEQ ID :5:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 213 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :5:	
	ACAGAGCCAT TTGCATCCAC TGTGGTCAAC ATTTAGGAAG TTTTAAGCTA	50
40	AGATTTGCCA AATTGTAGCC TACTGGATTC CGGTTCTCTT GACATCTCTT	100
	TOTACTACOO ATCTOTOCO OTTOCOCACT ATAAACCAAC TCACATCOAA	150

	ATTAAAAAAA GGGAGGATTT AAGAATAATG AAAAGAGAAA AATCAAGAAA	200
	GCACAATCAC TAG	213
5	(2) INFORMATION FOR SEQ ID :6:	
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 345 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :6:	
٠	CGCAGGAGAA GGAACAGAGC CATTGTGCAT CCACTGTGGT CAACATTTAG	50
20	GAAGTTTTAA GCTAAGATTT GCCAAATTGT AGCCTACTGG ATTCCGGTTC	100
	TCTTGACATC TCTTTCTAGT AGCCATGTCT TGCACTTCCC GAGTATAAAC	150
	GAACTGAGAT GCAAATTAAA AAAAGGGAGG ATTTAGAATA ATGAAAAGAG	200
25	AAAAATCAAG AAAGCACAAT CACTAGTGTA GAGATAACAG AATTTCTGAA	250
	TTCCCTGAAA CAATCTATAT AAATGCATGT GAAATAATAC ACCAGCATCT	300
30	GTGGCCCATA CGTCACATAT TAGGAACTGA TAACATAAGG TAAAC	345
	(2) INFORMATION FOR SEQ ID :7:	
	(i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 159 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

40

(xi) SEQUENÇE DESCRIPTION: SEQ ID :7:

	TCCATTTGAC ATCGCATTTC CATAGAAATG GCCAAAGAAA GAAGGTCCTG	50
	GGGTTTTTTA TAGAAAGCTC AAAAAGTTCA ACCTTTGATG CTATCCCCCA	100
5	GCCCAATACA AAATATATAG AAAAAGCGAT TATTACAATA ACGCTTCAAT	150
	TTCTTTTCC	159
	(2) INFORMATION FOR SEQ ID :8:	
10	A N. ADAUDYOT GUYDYOMIDYOMIO	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 124 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :8:	
20		
	ATATTTCAAT CGAACAAAA GGAAACTTTT TTTGAACTTA TTGAGGCTCT	50
	ACTTAAGTAC ATCGAAACCC TTAATGCTTC TGGGGCTGTG TTGATTTCCT	100
25	TGCCTGGCTG GGGGTTTGAT TCGC	124
	(2) INFORMATION FOR SEQ ID :9:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 259 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :9:	
	CCGATACAAA TGTACGGAAT GTGTGAGTCC CTCTGGGAGC CCAACATGGA	50
40	TOCCONTON CONTOTON NO CONTOTOCON ACCONTOCON NACCONTO	100

26

	ACCGGGATGC AGTGTCAGGC ATGGGAGTCA TTGTCCACAT CATCGAGAAG	150
	GACAAAATCA CCACCAGGAC ACTGAAGGCC CGAATGGACT AACCCTGTTC	200
5	CCAGAGCCCA CTATATATTA TTTCTACTTC ATCTATATAT TGCAAAAATA	250
	GAAAATAGA	259
10	(2) INFORMATION FOR SEQ ID :10:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 216 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :10:	
20	GTCACCAAGA CCGAGGCCAA ACTGGGCACC TTCCCCAGGG CCCTCAAGAA	50
	GCTCCTGCAC ACAATAAACG CGCCCTCGTT CTTTAGCAAG TCTGCTCCCT	100
25	CGAGGCCACA GCAAGCCGGC TACGGAGCCC CCGTTCTGTT TTGAGCCGAA	150
	GACTACTTTA TTGGATGCGG TGAAAGGCCT CAGCTCTGAC ACTCTGATCA	200
30	CTGTGACAAG GGGCCC	216
	(2) INFORMATION FOR SEQ ID :11:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 205 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

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(xi) SEQUENCE DESCRIPTION: SEQ ID :11:

	CACACTTCTT AAGATACATC AAGTACTAGT GATCTTTGCT AGCAGTTATG	50
	CCTGTTTCGT GTTACAGATT TGGCCATATA TTGACTAAAC AGCCCCTGTA	100
5	AAGTTGAAAG AAAAAGTTTA TAACAGTGAA CTTCTGAGGT TTACGTTACT	150
	GCAGGCTTTG TTGAGAAGAG ATTGTTACAG TGTGATTTAT GGATGATCAG	200
	GGATG	205
10	(2) INFORMATION FOR SEQ ID :12:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 267 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :12:	
	TGCATCTGAA GAGTTGATGA TCGAGACTAC AGCTGCACTA TCAGACTGTC	50
25	AGGCAGCTCC CTCAGAAACA GCTTCAACAG ACTGGCTGCT GAGCAGACAT	100
	ADDINGTOR CICHOTEMON COTTONNON ACTOCISCT UNGONOMONI	100
	CACCGTCCTT CCGAGCTCCA CGGCGACTCC ACTCTCGAAC TTCAGTCGAA	150
30	GTTGTTCCAC CACCTTCACG TTACCATTCA CCCTAAAAGA CCTTCTTGGG	,200
	TAAGTCCATG CTGCGTCAAA TATTCCACTA TATTCCACAC TACTGCTGGA	250
	TATGCCATTC TCGGTGA	267
35	(2) INFORMATION FOR SEQ ID :13:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 116 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :13:	
• •	GCCTCATCAG GTTTGCCCAG ATGCTGGAGA AGGTGTGCGT GGAGACGGTG	50
· 5	GAGAGTGGAG CCATGACCAA GGACCTGGCG GGCTGCATTC ACGGCCTCAG	100
	CAATGTGAAG CTGAAC	116
10	(2) INFORMATION FOR SEQ ID :14:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 296 base pairs	
	(B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :14:	
	TTCGAACTTA CCAGCATCAT GTTTGGTCTC TTCGTATGGT CAAACTTCAA	50
25	CTTTATAAAA ATAGTGAATA CCACTTATTG AGTGCTTAGA GTGTACCAGG	100
	CATGGTGCTA AATACTCTCT ATCCATTATC TCATTAAATC ACATGACACT	150
	ATGAGAAATG TACTATTCTT ATACCCACGT TGCCCAGGGT CATACATCTA	200
30	AGGGGTGCAA GGACCAGGCT TTGATTTCAA ATTATAATCT AATGCTCACT	250
	CTCCAGGCCT GATGTCACGC AGCTCCTCAT TCTTATACTT AACATA	296
35	(2) INFORMATION FOR SEQ ID :15:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 123 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :15:	
	CGTCAGTGTG CTACTTCACA TCATTAGCGA GGCCCAGAAA CTTGAACAGG	50
5	AAGTCCGGCA CTACCAACAT GCCGCCACTC ATACAACTCA ACTCTTCCTC	100
	CAAACTCGAT TCAAAGAGCA ATA	. 123
10	(2) INFORMATION FOR SEQ ID :16:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 262 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :16:	
20	CAACACATTA GTGCATCAAT ATGAATTACT TGTTTAAAAA ATCAAATGCT	50
	GGCATTGTCA GAAAAATTTA ACAGGTTTAT TTATAATTAT CATAAAGTTG	100
25	ACGCTGAAAC TTGTTCACTG AAACATTTTA ACTTGCATTA ATGCTTTACG	150
	TCTCCGCATT TATATTAAAA ATTCACACAC AAATGAAATG	200
	•	
	CANTACCTGN TTTCTGTCCC TATTTTTCAC TCGCANTCAT ATACTTAGTA	250
30	CTTTTGACTC TA	262
	(2) INFORMATION FOR SEQ ID :17:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 169 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

• •	(xi) SEQUENCE DESCRIPTION: SEQ ID :17:	
	TAGCCAAATT CTAGGGCATC CAGATGCATT TGAGCCAGTC GTAATCCAGG	50
5	AAATGTCAAA AAAGCCCCAA TGAATGAACA GAAAATAGCC AGGAAAAATT	100
	TGAAAGTAAG TTTTGAAACA GGACTCGTGG AGATTCTAAA CCTTGCATTT	150
10	TCAAGAAACG TGCATCAGC	169
10	(2) INFORMATION FOR SEQ ID :18:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 221 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :18:	
	AGGGGCACCA TTACCATCCA TCTGACATCG CATTTCCATA GAAATGGCCA	50
	MODOUS TIMOSITUS TOTORNATOS CATTICONIA GARATOGECA	50
25	AAGAAAGAAG GTCCTGGTAG GTTTTTCATA GAAAGACTCA AAAAGTTCAA	100
	CCTTTGATGC TATGCCCCAG CCCAATACAA AACTACACAG AACAAAGCAA	150
	TTATTAAAAT ACTGGCTTCG GTTTCTTTTT TTCCTTTGCA AAGTTTCCTA	200
30		
	CATATATGTC TTTTACAGTA T	221
	(2) INFORMATION FOR SEQ ID :19:	
	(5) 400 500 500 500 500 500 500 500 500 500	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 135 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

. •	(xi) SEQUENCE DESCRIPTION: SEQ ID :19:	
	TAGGCTCTGT GACGGCATAG TTTTCAGTAG CTTTATCACA ATATTCACAA	50
5	TGGAGAATTA TATGACATGG TAGCAGAAAT AGGCCCTTTT ATGTGTTGCT	100
	TCTATTTTAC CTGAAATTGT AGATATAGGG TAATC	135
10	(2) INFORMATION FOR SEQ ID :20:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 314 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :20:	
	GTTATCTATC TATCTTGCAG TTTACCTATC TGATCTGATC	50
	TAGTTCTGTC ATTTAAAATA TACTATTTAA ATCTAATTTT TACATTTCAA	100
25	AAATTATCTT CAGTAGTAAC TAAGTATATT TTCTGTGGAT TCTGAGAATG	150
	TTATTTTCA GAATGTGAGA GTACATATGT ACATTTATAA TCTTGTGACT	200
30	TTAAAGTCTG TTTTCAGATA CAGTATGTAA ATACTTGTAA AAAAAATTGT	250
	ATAATTTTGT GATAATGTAG TTTCCCAAAA CACATTTAGA AAGCATTATG	300
	TTATTAGTAA ATGA	314
35	(2) INFORMATION FOR SEQ ID :21:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 178 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

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	(XI) SEQUENCE DESCRIPTION: SEQ ID :21:	
5	TCTTCGCATC ACGCAGTACA GATACTCTTT CTGTACTTGC TTAATCTGCT	50
5	TTTTGGCATC AGTCAGTTCT CTTTCAGGTC AGCATAATCT TCTTCCTTCC	100
	TCTGAAGATC TGCTTTCAGA TTCTGGGTAC GAGCAGAGCT TACAGAGAGT	150
10	TCCTCTTCA ATATTCTGT TTCTTGCC	178
	(2) INFORMATION FOR SEQ ID :22:	
	(i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 188 base pairs	
•	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :22:	
25	ACATCTGATA TCCACCTCCA TGACAGACTG ATCACACCTC CTTCTATACT	50
23	ACTTCTGTTC TTTGTAAATA CTTAGTATTT TCCAAGGGAG TGTGAGAGAA	100
	GAAATGCTAG GTTCATGAAG GGTCTCTAGG TTAAACTTTC TTTCTTTTTT	150
30	TTTCTTAAAA CAACACACTT ATTATCTTAC AAATCTGT	188
	(2) INFORMATION FOR SEQ ID :23:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 152 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

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	(xi) SEQUENCE DESCRIPTION: SEQ ID :23:	
	TTCCANCTAA ACATCCAATA TNTCNTTTAN TGCTTTTATA TTTTTNAAAT	50
5	GTTAAAACCC CTATACCACC TTTTGGGAAT GTTTTAAATT CTCCAATTTT	100
	TCGTTATATA GGATCAACCA ACTAAGAAAA GATTTTATCA ATTGAATTGA	. 150
	GG	152
10	(2) INFORMATION FOR SEQ ID :24:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 83 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :24:	
	ACAATACAGA GGACAAAGAC CCCTCACAGA ATGCTTTTCA ACCAACTTCA	. 50
25	ACTITIGCAC ACTITITCAA CGGTCCCACC ACA	83
	(2) INFORMATION FOR SEQ ID :25:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 176 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :25:	
40	AAATGTCCAT TGCTGTATTG CGTGACCGTG GTCCTTGCCT GTCAAATNCA	50
40	ACAATGACCA AATGATGATG CGCCCTTAAT ACCAGGATGA GACCAAACCT	100

	ACACATCTCC CAAGTGCCGA ACAAAAACCT GAACAAAAAC CATNTGCACC	150
	CTACATCTGG CTGACATTTA CATTTT	176
5	(2) INFORMATION FOR SEQ ID :26:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 232 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :26:	
	AAATGTATGA TCAGAAAATA GGTACGCTTT TAAAATATTT GAACAGAAAA	50
20	GCTACAAATA AATNGAGCAA TGCTTTTAAA ATCATCTTTG TTTTATAGAC	100
	TTTTTCTCGC ATGAATTACA TTTTACAATT TCATNNGGCA TATTCGCACT	150
	TTAAGTACTG ACGAAGAAGA CTAAAACAAT CATTTTTAA CAATATTTAA	200
25	AAGGATCATA TAGTCGACTT TTAAAACANC CC	232
	(2) INFORMATION FOR SEQ ID :27:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 192 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :27:	
40	GAGAAAGTCC TTGCCATTCT AAAAGCCACC CCACTTCTCT AAGGAGAATG	50
	GCCCAATCTT CCCAAGTCCA CACAGGAGGG AAACATTGTT TGCGTAAATA	100

	CGCAATGCAA AATTTNNTAT CTTGGCTTAA TACNNCGACG TTTTATTTCG	150
	AATGATGAGC CTTCTGCCCC CCCTTCCCCT TTNNNCTCCC CC	192
· 5	(2) INFORMATION FOR SEQ ID :28:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 201 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :28:	
	TAACACTTTA ANCATCTCTC CAAGCCAAGG AGGCTATGAC ANTGTAGCTT	50
	TTATACTGTC CCCATCGGCC ACAATAACAA ACTTTTAACC CTCATAAAAT	100
20	GAATGAAATC ATCTTTCTAA GAATCTATAC CTACAATTCT CTGAACTAAT	150
	CAATGAAAAA GATGATCAAT TCTGACTAAC AAAGATATAT CGATTCCATT	200
25	τ̈́	201
	(2) INFORMATION FOR SEQ ID :29:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 275 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :29:	
	AACCTAAGGC AGTTGACCCC ACCTTCCAAC ATGTTTTCAC TTTATTGGCC	50
40	CCTCCCTACA TTCGGGTTAG GTTCCATTTG ATTTGCACAA TAATGACTTT	100

	ATTTCTCTTT GATCAGGATT TGGCACATAA AATCCTTTTA TCATAGAACT	150
	AACTATTTTA ATTACATATA ATGTAACTAA TGGAGAGATT TATAGAGAAT	200
5	TTTGTTTTTT TGTCATATAC TCCATTTCGA AGACAGATAT GATAGAACTA	250
	GAAATTAAGT TGCATTTCTG CAAGT	275
	(2) INFORMATION FOR SEQ ID :30:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 122 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(wi) SEQUENCE DESCRIPTION, SEC. ID . 20.	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :30:	
	GTAAATNTAC AAAGATAACG TCGCAATTTT CTTAGATTTA AATCAAAGAC	-50
	ATTCATCAAC AAGATTTCGA ATGGAATATT CCAGAAATTT CTGAGCCATC	100
25	TGATCACAAC AACCGTCTTT GA	122
	(2) INFORMATION FOR SEQ ID :31:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 197 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :31:	
40	GGATTTGNAG CTTGAAGTTC AGAGCTGGTT TACCCAAAAA GGGAGCCAAT	50
40	AGAGATETTE CEAATGAACE TEAATACACG ATEGTAATAC TEGEACAATG	100

	AAATGTTAAG TATGATTCTA GACTTCACTG ACTATCACAA TGATATTTTC	150
	TCGATCGCAC TAGTGCACAA CAAAACACGA TGAGTGCAAT GTGAAAC	19
. 5	(2) INFORMATION FOR SEQ ID :32:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 97 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :32:	
	ACAAAAGTCT GAAGAAATCA CCAACNACAA GACGATTAGA AAATATGTTG	50
	TTGGGGTCAC AACTAAAAAG TCCCTGATCT ACATTGNNTT TCNACTC	97
20	(2) INFORMATION FOR SEQ ID :33:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 260 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :33:	
	CAAATAAAAC AANTNTTGTA AAGCTACAAT AGTTATATAC CAAAGCAATA	50
35	CCTATTACAT GCTTTACACA ATCCCATGAA AAAATAATTT AATAGCTCCT	100
	AATCCCTGAT GCAAGGCACT TCAAAGCACC CGCACAAAAC TCCATGAAAC	150
	AACATACAAT ACATCATTTA AATAACATAA ACGACTTTCA CACACTTGAC	200
40	CTAGGAAAAA ATAAAATCCA TACAACCACA GCTAAAAACA TGTTAAGATT	250

	CACAATAAGA	260
	(2) INFORMATION FOR SEQ ID :34:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 168 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :34:	
15	GGACNTGCGC NNNANNNANA GCCANTGAAC NCAGCCACCA NTGCAAGAAG	50
	ACTGCCTCTT NCCAGGCAAG ATTTTACTGG AGCAACANAA CCGGAGGTGT	100
20	GATCCAAAAT ACCTTCCTTN CCAAGCCCGG GGTNNNNGAT AAGGTGTGGA	150
	NTTNGGTTAA AGACAAGG	168
	(2) INFORMATION FOR SEQ ID :35:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 173 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :35:	
35	CTCGNACACT GTGGAGAGCC TGCGNNNNNN NNGGTNTACT CAGGGGGACG	50
	AAAAGGAGNN GAANAAGTGA CACNGCNGNT AGCAGAGNGC ACAGAGCTGT	100
40	GCTNNNGTGG TCCCTTAGNA 3CCGAGNAGG TGGGCGCGAG GTGAANAAGG	150
	TGCNNGTGCG AGAGTGCGTG ATT	173

	(2) INFORMATION FOR SEQ ID :36:	
	(i) SEQUENCE CHARACTERISTICS:	
-	(A) LENGTH: 134 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :36:	
	AGCAAGTNNN NNNNNCATC CTGAAAGTCA AAATGGAATT TGTGTTTATA	50
15	CAACTAATAA TGATTTTTAT TTGCTCAGTA CAGACTNATT TACAATGAAA	100
	GTTTTGCTAA CCȚTGGTAAG CTTGTTTACC GTTT	134
20	(2) INFORMATION FOR SEQ ID :37:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 160 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(W.) CROWENCE PROCESSOR OF THE PROCESSOR	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :37:	
-	TGGCGCCTGT CCGAGAGCAA GTNGNNNNNN NNCCTGAAAG TCAAAATGGA	50
		30
	ATTTGTGTTT ATACAACTAA TAATGACCTT TTATTTGCTC AGTACAGACN	100
35	GATTTACAAT GAAAGTTTTG CTAACCTTGG TAAGCTTGTT AACCGTTTAC	150
	1001cmn	
	ATGACTTCTT	160
	(2) INFORMATION FOR SEQ ID :38:	
40	. ,	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 140 base pairs	

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
· 5		
3		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :38:	
	CTAGTTTAAT GAATCTGAGG GGCTACTATA AACAATCCCA CCCTCACACG	50
10		
	ATTTTTTACC TTCNTTACTT NGCCCTTCAT TAGGCAACCC TAGCAGCACT	100
	CCACCTCTAT TCTCGCACTG TCCAAGAGGC CCACCTAATC	140
15	(2) INFORMATION FOR SEQ ID :39:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 203 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	•	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :39:	
	AGCAAGTATC ANNNNNNNN ATACATTTGA ATTCAAGTTG TTTTTTGTCA	50
30	AATTGTACAG TGTGTCAATT GATCTTCAAG CTGNNGGTGC CTAGAAATGG	100
30	GNCGGTGTCT GTAGCCCTGG CATGTGCACA CGGAGCATTT GCCACCACCG	150
	CAAGCAAAAA GTCTGGGNGA AGTTCACCAA NGNCAAGAAN NATTANGGGA	200
35	AAA	203
	(2) INFORMATION FOR SEC ID .40.	
	(2) INFORMATION FOR SEQ ID :40:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 170 base pairs	

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

## (D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :40:	
	GAAAAGCNNN NNNNNNGGC TTAAAGAACA ATATGCTGAG ATGGAGAAGG	50
10	ACCTAGCGAA ANTNNNAACC TTTTAAGAAC TTGAANNACA ACAATCACAA	100
10	ACTAATGAGA AGATGTTCAC CTCTCTCCTG AAAACTATGC CCACCAGACC	150
	GTTTAGCCTC TGCTCAAGCT	170
15	(2) INFORMATION FOR SEQ ID :41:	
20	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 270 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	·
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :41:	
	GCTGCATGTT TCCTTGNATT TGAGCTTGAA AGTTCAGAGC TGTTTACCCA	50
30	AAAAGGGAGC CAATAGAGAT CTTCCCAATG AACCTCAAAC ACGTCGTAAT	100
	ACTCGCACAA TGAAATGTCA AGTATGATTC TAGACTTCAC TGACTCATCA	150
	CAATGATATT TTCTCGATCG CACTAGGCAC AACAAAATAC GATGAGTGCA	200
35	ATGTGAAACA TCTACAAAGT AAATCACACA CTGTTTTTTT AAATNCATAG	250
	AAATTTGATT TGTAATAAAA	270
40 -	(2) INFORMATION FOR SEQ ID :42:	
	(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 245 base pairs

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :42:	
10	AGAGCTGCAT GTTTCCTTGA TTTGNAGCTT GAAGTTCAGA GCTGTTTACC	50
10	CAAAAAGGGA GCCAATAGAG ATCTTCCCAA CGAACCTCAA TAACGATCGT	100
	AATACTCGAC AATGAAATGT TAAGTATGAT TCTAGACTTC ACTGACTATC	150
15	ACAATGATAT TTTCTCGGAA TCGCACTAGT GCACAACAAA ATAGATGAGT	200
	GCAATGTGAA ACAATCTCAA AGTAAATCAT ATACTTGTTT TCTTA	245
20	(2) INFORMATION FOR SEQ ID :43:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 124 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :43:	
30	(,	
	TACACTGNGA AAATGTACAA AGAAAGTATC CCCAAATNAT TTACAAAGCC	50
	TARATGTCCT TGATACACAT ACACGGNAGT ATGCAGACAA CAAAGATTAA	100
35	ATGAAGACAC TTTACACTTT TCGG	124
	(2) INFORMATION FOR SEQ ID :44:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 144 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

43

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :44:	
	GAGTTCTCAC GAATACACAG GTTCAGAGAG ATGAGANGGA ANAACATAAG	50
	GCAAATTCCT AACANNCGCT AATATAGGAG GCCGCTCGAT AGGATTTTAA	100
10	AAAAATAAAA ACAATCTTAA TAGTGGGACA AGGCCATCAG AAAA	144
	(2) INFORMATION FOR SEQ ID :45:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 177 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	į	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :45:	
25	ACTGATTCNN NNTGAAAATA CCCCCTTTCT CCATTAGTGG CATGCTCATT	50
	CAGCTCTTAT CTTTATATTC CAGTAAGTTA TTTTGCTCTC ACTGTTTTAA	100
30	CAAAAAAAA AACAACAACA TAAAAATCCT TGCAAACCAT GTCAATTGGA	150
50	GAAATTTAAT GTTTTTCATA ACATGAA	177
	(2) INFORMATION FOR SEQ ID :46:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 256 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ 1D :46:	
	ACTGATTCTG CGAAAATACC CCCTTTTTAT TAGTGGCATG CTCATTCACT	50
5	TTATCTTTAT ATTCAAATAA GTTATTTCGC TTTCACTGTT TTAACAAAAA	100
	AAAAAAAAA AAAAAAATAC AGCCCTCCCC AATCGAAGAT TTCAACTTTT	150
10	TAATTCACAC GGAAAAACCA AGACAATTTC ACAACTTCTG GACACAACCA	200
10	TCAACACAGG ACATTTTTT TACAGGCAAA TCACTTAAAA CAAAAAAGAT	250
	CCCAGA	256
15	(2) INFORMATION FOR SEQ ID :47:	
20	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 155 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :47:	
	GAGAAAAGTC NNNNNNNNA GGTTAATCTA ACTTTTCTTG CTTATTTCAG	50
30	CTATGATCTG AAAGGATGGA AGACACAAAA TGTATGNNTA AGGTATTTTT	100
	AACAAAGATA CATGGGTAAA TTAACAGCAG TAATGTAAAA AAGACTGAGG	150
	AGCAA	155
35	(2) INFORMATION FOR SEQ ID :48:	
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 68 base pairs	
40	<ul><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	

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	(xi) SEQUENCE DESCRIPTION: SEQ ID :48:	
_	GCTTATTTTA CTATATCTAA AGGATAAAGC ACAAAATGAT GAATAAGATA	50
5	TTTNNACAAA GATACACG	68
	(2) INFORMATION FOR SEQ ID :49:	
10	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 244 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :49:	
20	CCTGAAAGCA AAGCCATNNA AAGCTTAGAG ACAAGCACNT GAGATGCAGG	50
	GGCCTAGCTA AATTINGAAC CIGNIGGAAC IIGAACCACA ACGATAAAAA	100
25	ATTACAGAAG AGTTCACCTC TTTCTGAAAA CTATCCACAG ACCGTTTACC	150
23	TCTGCTTCAA GCTANCAATA TATCAATGGC ACTCTCATAN CAGAAGAAAG	200
	AAGTTCCTAC TAGCTCCTGA TTATATTNAA GAAGATGCCC ATGG	244
30	(2) INFORMATION FOR SEQ ID :50:	
	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 81 base pairs</li><li>(B) TYPE: nucleic acid</li></ul>	
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID :50:	
	ACTCGNNCAG CGATAGTCGG AGCTCACCAA CAAAAACNCT NNNNCAGAAA	50

	GGANAAAGNG CCGCCCTACG TGGTACACAC A	81
	(2) INFORMATION FOR SEQ ID :51:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 223 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :51:	
15	GTACTTACTG CACTATGAAA AGCAATAGAT CGTCCATAAG TTATAACCAA	50
	AATCTCTCCC TCAGGAATAT ATTCCATACT ACTAACAGAC ATATTAAAAT	100
20	TTAGAGATTT CACTTCTGTC ATAGTAGCAT GATCCCAAAG TCGAACAGTT	150
	TTGTCATCAG CAGAAAGAAT CTGTTTATCT CACTGCACCA CAGAGCTTTT	200
	TTATACCAGA AGNATGACCA CTG	223
25	(2) INFORMATION FOR SEQ ID :52:	•
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 49 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	. ·	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :52:	
	TATGGTTTNT TGTAAAAAAG CTCANNNANA AAGGGANNGG CTTAAGAGA	49
40	(2) INFORMATION FOR SEQ ID :53:	
•	(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 213 base pairs

47

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
· <sub>5</sub>		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :53:	
10	CAACGTCAGA GCACACNNNN NNCTCAGNGC ANAGGCATGA CAGGAGCTCA	50
10	TANCHATAAG CCATATAANN NTGTTACCTG TATAGAATGA TGAATTATCT	100
	TTCTAGAGTC TATACCTACA GTTCTCTGAG CTAATCAATG GAAAAGATGA	150
15	TCAATCTGAC TAACAAGAGN AATTGATTCA TTTTCTTCCA CNCCCCTTCA	200
	TTCAATAATC AAA	213
20	(2) INFORMATION FOR SEQ ID :54:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 166 base pairs	
	(B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :54:	
30	GCGTGTTGTG NGGAGTGGNN GTCTNGTCNT CCTGTTAAGG TTTTTGTGTG	50
	CGTNNTTGCG TANGGGGNGG GTTTNGGCAG GTGTTGCCGG TAGCNAAACN	100
35	GTTGGCCCCA TNGCCNGNAT TGNNNCCCCN CNNGGGAANG GGGGGGGNGA	150
	CCNNAGNGGG AAAAAA	166
	(2) INFORMATION FOR SEQ ID :55:	
40	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 75 base pairs	

48

(B) TYPE: nucleic acid

•	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :55:	
	ACCTCATAGC GAACTCGTCN TATAGANNNN ANNTGAGTCG AGCTCGATGT	50
10	•	
	NGNCGTTGTN GCTGCCAAGC GACAT	75
	NO.100220211 0020002100 0110112	
	(2) INFORMATION FOR SEQ ID :56:	
	(2) INFORMATION FOR BEG ID .30.	
15	(i) SEQUENCE CHARACTERISTICS:	
13	• •	
	(A) LENGTH: 181 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
20		
	( ' CROVINIAN PROCEEDINGS AND IN IT	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :56:	
25	NAMES AND ASSESSED OF THE PROPERTY OF THE PROP	50
25	AATNNNNCC TATTTTGTAA TTTTTTTGAA AAAAGTTCAA TGTTCAGTTT	50
	, , , , , , , , , , , , , , , , , , ,	300
	TCCTTAGTTT TTACCTTGTT TTCTCTATAG GTCATGATTT CTGTGAAGCA	100
	))), () TO CO C. THE TO CO CO. () THE COURT OF THE COURT	150
	AAAAGATGCC TTTTACCATG AATTCTTGAG TTTACATCAA TAATATTGTA	150
30		
	TATTAAGGGG ATCAGAAGTA GGAAGGAAAA A	181
	(2) INFORMATION FOR SEQ ID :57:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 130 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

	(xi) SEQUENCE DESCRIPTION: SEQ ID :57:	
	TCGAAGAGAC CTCAATCACC GTTTTTCAGG ATGTTTGATC ACAATACGAA	50
· 5	GATGACGNNA TCCAATTTCA GAACACCACA GGGCACTGGC ACACAGAGGG	100
	GATTATTACA GAACCACTGA GATGACATTT	130
••	(2) INFORMATION FOR SEQ ID :58:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 157 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :58:	
	GTNATTTTGA AGGTCTCACA AATNTAAAGA CTTATTGTAG CCCATGAACA	50
	CATTGACAAG TACAAAAATT ACAAAAATAT GCAGAAATAT TGAATAACTA	100
25	GAACACAAGC CACTGTTTCA ACTCCAGAAA AAAGAAAGGC TTTACTTTTT	150
	CCATGAA	157
30	(2) INFORMATION FOR SEQ ID :59:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 252 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :59:	
40		
	ርእርርጥርእእርጥ ጥርጥጥርኮቸጥእጥ ጥርእእጥጥርርእጥ ጥእጥእእእጥርእነእ ጥእርረረጠረውር	FΛ

	CTTTTTGNAC TCTCTATGAG TTCATGAATT TAACCAATAC GNCCACAAAT	100
	GCTGCTGCTG TCACAGAGAG ATGCCGATAA AGGACACCCA CCACCAATTT	150
5	TTGAACAGGG AGGGGAGAAT CAACTCTGAA TGTGATGCAG TGACCAGGAG	200
	AGAGGACCAT GTTAACAACA CCACACAAAT GCAAATGACT NGTTCTNAAA	250
	CA	252
10	(2) INFORMATION FOR SEQ ID :60:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 198 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :60:	
	GACCTCGTTT TTCATCCTAT TATGGCGTTT ANCAGGCTAG ACAGAAACAC	50
25	GCCTTAACTT TANTTGCCAC AAATCTTAAT ATTTTCTCCA CTAATATTAG	100
	ARAGGRAGCA ACARATRATG TOGOTTTTCA COTGACGTOT GGTTCARCTT	150
30	TCCGCCCAGC CTATTCCTGN GTCTTCCTCC TGCCTTTCTA ATGTCCCA	198
	(2) INFORMATION FOR SEQ ID :61:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 229 base pairs	
35	(B) TYPE: nucleic acid	
<i>د</i> د	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID :61:

PCT/GB93/01467 WO 94/01548

51

	GAGGTGGCAT TATGTGAGAC AGCATTTGGT TAGGGAGTGC CAAGCATTCT	50
	ACAGCATTTG ATGGTGGAAA TAGTCATGCT TTTTATTTCT GCTCTCTAGG	100
5	AATGTAAGGT GCACAGCAGG TCAGGGTACT GCTGTGTGAG ACAAAAGGTC	150
	CAGGTAGAGG CAATTCCCCA GATGCAGGCA GGGCAGGTGC TCACTGGGCA	200
10	GAGTGCTTCT CATACACCTT CAGGAACCC	229
10	(2) INFORMATION FOR SEQ ID :62:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 181 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :62:	
	CATCCTGGGC CCTGGCCGAT GTGCATATCA ACANAAAAA GGGACTGAAG	50
25	AACATCGGCC ATATCATCCA CACAAGCCAA ATCTCACACC TTTACTTTAA	100
	ACCGCTTAAT GAATTTCATG ACCTTGAGGG CTAAAGATCG TTCTTCGGGC	150
	AAGAGCTTTT GGACTGTTTT TAGAACAGAA T	181
30		
	(2) INFORMATION FOR SEQ ID :63:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 180 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

(xi) SEQUENCE DESCRIPTION: SEQ ID :63:

	GTTGATTGTG AATCATCCCT CTAACATATA ATCAANANTA TGAGTAGAGA	50
	ATTTGGCAGA AACAAGAAAA GGACATGGGA TAACTTTTAG ATTTAAAGAG	100
5	GCAGGCTTGG AACACAAACT GGTATTCTGC TGACACACTG CTGCATATCA	150
	TAAGGCTACT CCACAAGACC ATTAGAAGTC	180
10	(2) INFORMATION FOR SEQ ID :64:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 120 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
1.7	(5) 10105001. 1111011	
	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :64:	
20	. , , ,	•
	ACAATGTTCC AACATATATA TGGGGAGGGG AGAACANTTA TCTGTATAAC	50
	AGGGAACTGT GATTATTTAA AAATANGCNA GAACTTATTT CANCTGTGCT	100
25	TTAGAAANAA NTGTATACGG	120
	(2) INFORMATION FOR SEQ ID :65:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 70 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :65:	
	·	
	CACATCGCTA TAATCCTTTC TGAGGACTTA AAACTTTATN CCACTTACCT	50
40		
	TTATGACTTT TAACAAGCCT	70

	••	(2) INFORMATION FOR SEQ ID :66:	
		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 240 base pairs	
5		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
10			
10		(xi) SEQUENCE DESCRIPTION: SEQ ID :66:	
		TTTCGAGCAA AATGTTTACA TTTACATGGA AATACACACT AAAACAGAAT	50
15		ATTTTCCTAA TCATGAAACT TCGCCAAAGC AAAATACAAA CTTCCAACGG	100
		GAGGTCCACT CAACTAACAA CAATGATCCC CAAGCAGGGC ACCAAGAAAC	150
20		CTGGGGGACC CTTTNCAAAA AACCTCCTTT CAAGAGACCC TAATACTCTN	200
20		TCCACACAC CACACGATTT AGGAACTTGG ACATGTTCCT	240
		(2) INFORMATION FOR SEQ ID :67:	
25		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 254 base pairs	
		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
30			
		(xi) SEQUENCE DESCRIPTION: SEQ ID :67:	
35		GGAAGCACTA CATTTCATCC AAAGCTGGGT TGAGTTATTT TTGAACACTT	50
		TACGATATGC TTAGGTAGGC TTTTAACTTG CTCCTCCAAA CAATATCTNT	100
40		TGGGAAAACA AGCCCTGTGG AGAGATCCTT CCATCAAGTC GCTTCAATTT	150

AACCTATTTC TAGAGGACTA GACATGCAGA ATCGTCAACT ACAGGGAATG

	AAAAGTTCAA AAAGTAGATC CTACAAGATG AACGAGTACT TTTCTAAACA	250
	TAAG	254
5	(2) INFORMATION FOR SEQ ID :68:	
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 192 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :68:	
	AGGCACCAAA GAAACACCAA GCAATAAAGT GAAAGACTAA CCAAGATTTG	50
20	ACATTGTATG NTTACTGTAT TCTTTAAGAA ACAACTACAA AAAGAAAATG	100
20	TCAACAAATN NNNACAACTG AGAACCTGGG AATTCCCGCA CGGAAGACAA	150
	GAGATAACCT CTCCAATTTA ACACCGCTAG GNTTCTATNN TA	192
25	(2) INFORMATION FOR SEQ ID :69:	
	(i) SEQUENCE CHARACTERISTICS:	,
	(A) LENGTH: 112 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :69:	
	AGCAGCGNNN NNNNTNNAAA CAAAAGACAG GAGCAGAGAG GCCTGAGAGC	50
40	AGGAGGCGAA TTCGATCTCT CCTCACAAAC AGCCCAGGAA AATATACACC	100
40	CCGGGGAAG CC	11:

55

.

	(2) INFORMATION FOR SEQ ID :/U:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 232 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :70:	
	AAGGGTCTCC AATTTAATCC TTGGGTTGTT TTACCACTTC TTTCGTAAAT	50
15	TTATCAAGAT TTCTTTCGCA CAAATACTCT AGCGCCTCAC AACAAACCTG	100
	ACCTTGCGCA GGAAGTCGAC CATCAGCACC CCCTTTACAA CATCGTTCAT	150
	ATCACAATTG AGAAGATGAT GAATGAAGAT TCGCTTCCAA GTTCCAAGGG	200
20		
	CAGATTTATT CCTTTAACTG ACATTTCCAT GA	232
	(2) INFORMATION FOR SEQ ID :71:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 160 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :71:	
	. , -	
35	CNTGGATCCG NCCTTGTTAC GNCCAGGACG NCTGGACCGC AAAATGAATT	50
	TTCACTTTTC GACCACCGCC AGAAGAGATG ATTTTCTCAT CATNAACAAG	100
40	GAACCTTTGA GGAGATCGAC TGAAAGACTA GCGNCCCNGT CAGATAAGAT	150
40	ТТАСССТСА	160

	(2) INFORMATION FOR SEQ ID :72:	
· 5	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 182 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :72:	
	AAGGAAGACT GGTTTGCCAT CCGAGATCAT TAAAAANGNC TGACCCTAAC	50
15	AATACGTACA AAAATATAAA ACGCAAATAA AAAATACAAA CAGATTCCTT	100
	CTTAAAGTAC TTTTAAGAAA AAAAGCAGGN CCTTGGAAGT TTCGATTCTT	150
20	TTTTCCTCCC GTCGCAAATT CTATGTTTGG AT	182
20	(2) INFORMATION FOR SEQ ID :73:	
25	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 168 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :73:	
	CAAGAGGCAG CTGCCCCTCC CACCTCGGAG GNCTGAGAGG GNCTGTGNCG	50
35	ATGAGCTGGA CGAGCACAGC ACTAAAAAGG CTTGCCCTNG CACAATAACA	100
	CTGAGAGGAT GATGAGAACA CNCTTGAAAT GCTTCATNCA CATGGGCAGG	150
	ANAGGCTGCA CAATGAAA	168
40	(2) INFORMATION FOR SEC ID •74•	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 221 base pairs

	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :74:	
10		
	AACCTTTATT CATCCTCCTN TCCAAGACCT ATGAGAAGGT TCCAGGCCCC	50
	AGGAACACAG GCTTCTTGGC CCCAGATGCA CCTCCCTGCA CCCCGGGGTT	100
	AGGACACAG GOTTOTTOG GOGIGATION GOTTOGG. GOGGGGGT	
15	GTATACCACA CCCCGGGCCC CTAATCCCAG GCCCCGAGAT AGGAAAGCCA	150
	ACTAGTTCTT TNTNTGTGAT TCAGTAGGCC TGACCTATAG NTGGAATGTC	200
	NCTNTCCCTN NAATAAATTN C	221
20		
	(2) INFORMATION FOR SEQ ID :75:	
	A CONTRACT CONTRACTOR	
	(i) SEQUENCE CHARACTERISTICS:	
25	(A) LENGTH: 127 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	. (5) 20102011 221021	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :75:	
	AGACTGNTTG GGTCATCCGA GATCATTAAA AATGNCTGAC CCTAACAATA	50
35	GGCACAAAAA TAAAAACGAA ATAAAAAACC TCCTTANNTT CGAAGTATCT	100
	TACARARA CACCCOTTC ACTITICES	3.00
	TAGAAAAAA CAGGGCCTTG AGTTCTG	127
	(2) INFORMATION FOR SEQ ID :76:	
40	(=/	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 180 base pairs	

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :76:	
	AAAAGAACAG CAGTTTCACA TTTCACATAT TTGAAAAACA TTTCAAAACC	50
10	AMMOMEN CACITORION III III III III III III III III III	
	CTCTARTARG TATTTARTGA ARATARATTT ATCGRAGAGA ARCARTGACC	100
	ACARARTTAN TACTACCANA TCATTACTGA GACTCTTGCA TTACANTATT	150
	70.22.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.	
15	TGGAGAGTAG GTGAAGAAAA TNTAGACCGA	180
	(2) INFORMATION FOR SEQ ID :77:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 142 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :77:	
	GATTAANNNN NNNGCACCCN NNATTACTGG CACAGCTGGT GAATATTTTC	50
30	GATTAMANA MANGGAGGON MATTAGGG CACACGGG GALLINITITG	-
	GTGGACTTTT GACTAGTGCA CCTGCGTGCG GGAAAACANT GATAAAACTG	100
	TCACTTTAGC CNCNAACTAC AAGACCNGTT AGACTAGAGA GC	142
35	(2) INFORMATION FOR SEQ ID :78:	
	•	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 124 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID :78:

_	GGCCCTGAGA GCAGGACGGC GAATTCGATC TCCTCCTTCA CAAACAGCCC	5
5	ANGGAAANTA CACCCGGGG AANNCCCCNC NCNNTTAGAA CCNNCAGGNT	10
	CTGNCCCCC CNNNGNCCCC CCCG	12
10	(2) INFORMATION FOR SEQ ID :79:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 171 base pairs	
	(B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :79:	
	(,	
	AGGTATAGTG TTCCCTAATC ATGTACTTGT GAAGCACCCG GANTTTTTCA	5
	TATAGTCTAA AAGCTAGAAG AACAAGAGTG TATTTCGTGG GTGGATGTAT	10
25	NGTCACTTGC TGAANNNTT GAAATACCAT TATCCCCCTT GCTAACNCCT	15
	TTAAGNAAAN GCCNTTTTAA G	17
30	(2) INFORMATION FOR SEQ ID :80:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 98 base pairs	
	(B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID :80:	
	CTGAACAGTG TGGTCGAGCA TTCCAAGTCC GTGAAGGTGC AGGAGCGGTA	5

.•	CGACAGTGCC GTGNGGGCAC CATGGCACCT NGACCACGGG CNCCTAAG	98
	(2) INFORMATION FOR2 ID :81:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 108 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :81:	
15	CCTCAACAAG TGCGAGACCT GGGCGTCCAA CCTGCCTACA ACCACAGCCG	50
	CGAAAGAAGA AGACCTGCTG CTTCAATACA ACACGGGAGG ACCTGGCCAT	100
	CAACATCA	108
20	(2) INFORMATION FOR SEQ ID :82:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 180 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :82:	
	ACACATNACC CACNGCCAGT ATATCTCGAA CAAAGTCTCA GACGATACTC	50
35	CCT AAATTG TAAAGCTTAA TACAGGTTNT GGAAATCATT TAACACCCGA	100
	GAATGTCCCA TCACAGTCTT CCGTCAAAAT TTAGCCTCAC AACAACAACA	150
40	ACGCCTACGA AATTCTAAAT TCAGAAGGAA	180
••	(2) INFORMATION FOR SEO ID :83:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 199 base pairs

(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :83: 10 GGCTTCTGAT CGCCATCCTT GAACAGGGCA AAGGTGGCCT CACCAGCCTT 50 CGATGCAGCT GCCATGCGCG CCAGAATCAG CGAAGGCATA CCCTTACGTC 100 15 GTTGGACGCA TGTTTAGATG CCTTTGAGAC CGCCCAGAGA AGTCCTTGTC 150 CTTCTTAATA AACACCTCCT CGCCAACTGC GACGACCACA ATCACCGTA 199 (2) INFORMATION FOR SEQ ID :84: 20 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 214 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 25 (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :84: 30 CTTCGGTAGT GCCGCCGTGG TGCCACACAC CGTTGAGGTT GGAGTGGGCA 50 CAGGCATGGT ACCACCAGCC TCCCCGCTGG TACAGGGCAC AGTTACCTGA 100 35 GGGGAGAGA AGAGTCCATG TCCTCTCACC AGAATAAAAG CCTCTACCTG 150 CACCTCACAG TGCAAGGCTT TTGCCAGGCA TCCCCTGGCC CCTCCCATTT 200 NACNGAATAC AACC 214 40 (2) INFORMATION FOR SEQ ID :85:

	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: base pairs	
	(B) TYPE: r. eic acid	
	(C) STRANDEL ESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :85:	
10		50
	CCTGGGCAAG CTGAATGTGA AGTTGACCAG GCTAACTGAG AAGCAAGCCC	30
	AGTACCTGGG CATGTCCTGT GATGGCCCCT	80
	AGIACIOS CITOLOGO CONTO	
15	(2) INFORMATION FOR SEQ ID :86:	
	*	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 210 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :86:	
	(00)	
	GGGGATAGCT GGCTCATCCT CGGAAAACAG ACCCACATCT CTATTCTTGC	50
	CCTGAAATAC GCGCTTTTCA CTTGCGTGCT CAGAGCTGCC GTCTGAAGGT	100
30		
	CCACACGGCA TTGACGGGAC ACAGAAATGT GACTGTTACC GGATAACACT	150
		200
	GATTAGTCAG TITTCATTTA TAAAAAAGCA TGACAGTTTA TTACTCTGTT	200
35	TCTTTAATG	210
55		
	(2) INFORMATION FOR SEQ ID :87:	
	(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 102 base pairs

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

## (D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :87:	
	CACAAAAAGC ATGATCAGGG CTAGCCTCAA TACAGGGAGA AATCATGGAT	50
••	ATTTAAAAAT ACTTTTTTT ATTCAGATTC CGGTATGACT GAAGANGCAA	100
10	CA	102
	(2) INFORMATION FOR SEQ ID :88:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 275 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :88:	
	•	
25	GATAGGCGCA TGCATACTAC GGCTAAGGAG AAACAATGTT CCTACATATT	50
	ACGGGCAGTG AGAACATTAT CTGTATAACA GGAACTGTGA TTATTTAAAA	100
20	ATAGCAGAAC TTATCNGTCT GTGCTTTAGA AATAACTGTA TACAGTGTTA	150
30		
	TAAGTTGAAA AGAACTCAAA ATAACTAATA CAAATAAGAA CCTACGTATT	200
	AGAATTCAAA AAAGCTGCTT TCTGTGAAGT CAATCAGCTA TATTAAAAAA	250
	AGARTICAAA AAAGCIGCIT ICIGIGAAGI CAATCAGCIA TATTAAAAAA	250
35	TGACACAAAT TCAAAACACG ATCAT	275
33	IGACACAAAI ICAAAACACG AICAI	2/5
	(2) INFORMATION FOR SEQ ID :89:	
	(2) INTOMMETOR FOR DEG ID .UJ.	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 263 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(4)	

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## (D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :89:	
	GCCTGATGGT ATATACTGTT TTGCAATTGC ATACAACTGT GCATTACAAA	50
	TTAATAGTAA TTATGGTTTG GNNGTAAAAT CGAGTTTCAG AATAAAATNA	100
10	AAAACAATAA AATCCAAAGA ACGATGTAAA CAAAAAAGCT TTTGTTTTGT	150
	TACAAAGTAT ATTAAGGATT TTCTGCTAAG ATTCAGTTTA AGAGTTTTCC	200
15	TCGTGAAAAC TAAGTAGAAA CACAATGCCA ACAGCTGGCC AGTAATCAGT	250
	GCTGTGTACT CCA	263
20	(2) INFORMATION FOR SEQ ID :90:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 108 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :90:	
30	GCGTCCTGCC CAACATCCAG GCCGTACTGC TGCCCAAGAA GACGGAGAGC	50
	CACCACAAGG CCAAGGGCAA GTGAGGCCGC CCGCCGCCCC CGAGGGACCC	100
35	CTTTGAGA	108
	(2) INFORMATION FOR SEQ ID :91:	
	(i) SPONENCE CUADACTEDISTICS.	
40	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 206 base pairs	
	(B) TYPE: nucleic acid	
	/-/	

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :91:	
	GCCTTGGTGG AGGGCATGAG GCTATGATGA CTATTGGCTA TAATATGGAT	50
	ATGGCTTTGG CTGATAGATT TGAAGAGACC TCAATTACGT TTTTCAGGAA	100
10	TGTTTGATCA TAGATACAGA GATGGTGGTC CAGTTTTCAG AGCACCACAG	150
	GGCACTGTGT ACACATGAGG GGTTACCTTA CAGAGCCACT GAGAATATAT	200
15	TAATAA	206
	(2) INFORMATION FOR SEQ ID :92:	
20	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 210 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :92:	
30	CCTTGGTGGA GGGCATGAGG CTATGATGAC TATTGGCTAT AATATGGATA	50
30	TGGCTTTGGC TGATAGATTT GAAGAGACCT CAATTACGTT TTTCAGGAAT	100
	GTTTGATCAT AGATACAGAG ATGGTGGTCC AGTTTTCAGA GCACCACAGG	150
35	GCACTGTGTA CACATGAGGG GTTACCTTAC AGAGCCACTG AGAATATATT	200
	AATAAANNNG	210
40	(2) INFORMATION FOR SEQ ID :93:	
	(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 189 base pairs

(B) TYPE: nucleic acid

	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :93:	
10	AGGACTTCAT CCCAGACTCA CTTGTTCTGT TACAGAAACT AACCTAAAAG	50
10	GCTGGAAATT AAAGGATACA ACCTAAGAGG TTATAACAGC AGACTGGTAA	100
	AACATGGCGA AAGGAGCTCT CTCTTTCCCC GCAGTCTACC AAGCTCCTGT	150
15	GCATTTTCAC CACATAGATC TGCTAGCTTA CAAATGATG	189
	(2) INFORMATION FOR SEQ ID :94:	
20	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 160 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :94:	
30	GAAGTGACAG GNAAGCTACA GGTGTATAAC AAATTTGTAA ACTAACCAAG	50
	CACAATGTGG CAGGGCCTAG CTGCTACAAA GAAGACAATT TAACAAATAC	100
	TCAACGCATG ACAAAAAACT CAGGACTGCA TTTGCACTAA TCGATAACGN	150
35	GTCATTTAAT	160
	(2) INFORMATION FOR SEQ ID :95:	
40	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 171 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li></ul>	

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## (D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :95:	
	TGCTTTATAC ATNATNAAAG GTAGGCACTT CATAAAATTT GCATTTTGGT	. 50
	AAAAGGCAAC AATTTGATGT CAGTATCTTA ATTGTGTCAT TAACTTTTTT	100
10	AAGAGAACAG ATTATCAAAA TTTTACGAAG AAGAAAAAA NTATAGTTTT	150
	TAAGGAAACT ACAGAAGGGA T	171
15	(2) INFORMATION FOR SEQ ID :96:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 131 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :96:	
	GTGGATAAGA AGATGTGTAC TTGGGAACAA GGCTAAAGCC ATTGGCTGAT	50
	TTCCCCAACC TTTTTATTCG CGAAGAAACT CCAGTTGTTA ACTTTTTGAG	100
30	AGTTTTTTT GGCAAAAGAA CTNCATTTAN C	131
	(2) INFORMATION FOR SEQ ID :97:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 279 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

40

	(xi) SEQUENCE DESCRIPTION: SEQ ID :97:	
	GTCCTAATAT TTCTGTNCAG AAATTGTCAA CTTGACTTGA GAGTTGAGAA	5
· 5	GTAAAGTTAA GGCACTGACA ATATATCAGA ATGGAAGTCC TTAAGAGCAA	10
	CTAACAGGTT CTTGATCAGA CTGACTATCT TTTCTTAAGT TCATAATATN	150
	TTACTGTCCA GCCAACTATA CTTGGATCAA AATATCCTTC ATGAAGGGCC	200
10	ATAATGTATT GATGATCTGC TGTAACTTTG AGAAGCTTCC TGAAGCTCNT	250
	TTTGAATAAA TTTATNGAAC TTATGAAGA	279
15	(2) INFORMATION FOR SEQ ID :98:	
20	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 266 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
25 ·	(xi) SEQUENCE DESCRIPTION: SEQ ID :98;	
	GTGAGTCTTT CTTCAACTAG GGGAATGTTT CCAGGGCACG CCAGGCCTCA	50
30	CTCACGCAGG CCTCCGCGAC AACTGTTCAG CACTGACTGA GGATGAAGTG	100
30	AAATCCTGAA AGCTGAGAGC CAGCGCCCTC ACACGAGGGC TGGGACGTAA	150
	CAAAAGCCCA TCAAGAGTTT TGCCCAGGGC TTTCTTGAGC CTTGAAGCAT	200
35	GACGAGACCA GGACCCTTTA GGATTAAGCA AGTTTTATGC GGTCTNAAAA	250
	AACTCCAGGG CCTCCA	266
	(2) INFORMATION FOR SEC ID .00.	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 206 base pairs

69

. (B) TYPE: nucleic acid

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
_	<b>,</b> ,	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :99:	
10	GGGAACATTT ATTGACATGA AAAGGTGTTT CAGATATACT GATATGTCAA	50
10	ACAAATAGTA AAACAACATA GAGTAATGAT TCATTTTGGT AAAAAATATA	100
	TATGTATATA TAGAAAAAA TTCTGCAGGA CATATGCTAA ATTGGTAACA	150
15	GTGCTTACCC CTGGGAAGGG GGTATACGAT GTTGATTTAC TCTTTGGGTA	200
	CGTATT	206
	(2) INFORMATION FOR SEQ ID :100:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 73 base pairs	
	• •	
	(B) TYPE: nucleic acid	
3.5	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :100:	
30	CGCAACTNTC NCTAAACATC CAGTTTTCTA ATNTAATAAA AAATGGCAGT	50
	AATTATCCTC ACCTCTCAGG GAA	73
35	(2) INFORMATION FOR SEQ ID :101:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 108 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

70

	(xi) SEQUENCE DESCRIPTION: SEQ ID :101:	
· 5	GAGCACAATC ATGNGCAAGC GCAACAGCAC ACCTTTATCC GAGTGAGACC	50
3	ACTATGCAGC NGAACAGAGA CTTCTTATCT CTTCTTCTTG ATACTTGAAT	100
•	ACTGCCCC	108
10	(2) INFORMATION FOR SEQ ID :102:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 210 base pairs	
	(B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :102:	
	GAATTATCAA ACCATCNTTG CTGACATTAA TTTTCCAGCT TTGATCTTAN	50
25	NTCTNGCTTT AGTCCTCATA CAATGACTGT GTTTTTCTCA AACGATNTAT	100
	CGTATAGGNA TCCTTCTAAG CAATCCTGCA CCCACAAAAA AGCTGCATCT	150
	TCAATATAAC ANAAAAAGGN ATTTTGCAAA AAGTACAAGT TTTATGTCTN	200
30	CTGTTAACTG	210
	(2) INFORMATION FOR SEQ ID :103:	
	(i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 76 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID :103:

	CGTAGTTCGA TTCGAGTGGT CTATACAATC ACACCAAGCT TGATGTTGAT	. 50
	GTCACCAAAA TTTCTTTCCA AAAAAA	76
5	(2) INFORMATION FOR SEQ ID :104:	
	(i) SEQUENCE CHARACTERISTICS:	•
	(A) LENGTH: 167 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :104:	
	CTTATGATTA ACTAAGCAAA TCTTTCATAG AAAGATATTA TCAAAGCTGA	50
	AGAAATGCAA ACTTNAACAA AGTGCCGTGA GATTCCGGAA AAACCCTTAA	100
20	CCGATTGAAT GGTTTTTTAA GAATAAAAAA GAAGTCTGAT ACTGAACTAC	150
	AAGTCGCAAG GAACATC	167
25	(2) INFORMATION FOR SEQ ID :105:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 122 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :105:	
	TATCTGCATA TCTAAACATA GAAAAGCACA ATAAAAAACAC ATATCATAAC	50
	CTCACGGGAC CACCATCATA CAGCAATTTG TCATGATCAA AAGAAACATC	100
40	ATTAGTCGTG CCATAACTGT AT	122

	(2) INFORMATION FOR SEQ ID :106:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 255 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID::106:	
	GAATTCTTCA CTCCAGATTT CCAATGCCAA GATACATTGA TACTGAACAT	50
	omileiten elektriste vollieren elektriste anderen elektriste	
15	GGAGGCAACC AGGCCCGTTT CCTCCTTTCA AAGTCAACCC TCACAGACTC	100
	ATAATAATAT GCATGCCTGG GGGCAGGAGT CTGGAGCACC TATTCTNACA	150
	GATGATGTTA TITACAAGTG TTTATGGATC ACTTGAAGAA ACTTGCTGTG	200
20	TCCAGTGCTG CTTGAAGTGC TAATAATGTT AAAGACACTT AAGAAGATGA	250
	TCCAGTGCTG CTTGAAGTGC TAATAATGTT AAAGACACTT AAGAAGATGA	250
	AATAA	255
25	(2) INFORMATION FOR SEQ ID :107:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 227 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :107:	
	, , <u>-</u>	
	GGACGTGAAT TGGTGGAATA TTTACAAAGA AAACTGTTTT CTCAAAACAC	50
	TGTTCATTGG TTGCAAGAAT GAATACTGAC TTCAGAACTC AAACAATGGA	100
40		
	AGAACTTGCA TTTTTATGGA ACTCAGTATT AAAAGAAAAT ATAATGTGAT	150

•	AGCACTTTGC AGATATGTCT AGACTGTGAT CTGAAGCATC GTAGTTTCCT	200
	ATACCAAGAN ACANTTATGT GGTAAAT	227
5	(2) INFORMATION FOR SEQ ID :108:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 162 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :108:	
	GAAAAATNGC ATGAAAGAAG ACTCTTNNNN NGCCATACCA TGGTACAATA	50
	ATCATNAAAA NACAANAACA AAAACAAACA CATAAAACCA CTCACATATA	100
20	CATGTAGATA CAACAACNAT ATAATATCAA TAAAAAAAAA ATAGNAAAAA	150
	AAAAAAATAA CA	162
25	(2) INFORMATION FOR SEQ ID :109:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 154 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :109:	
	ANTTANANAT ATTANACANA ACTACCACTC CTCCTTATTA ANGCCCATAN	50
	AAATAAAAA CGAAACCCGA GAACCAAAAT GAACGAAAAT CTTTCGCTTC	100
40		150

74

	••	GTTT	154
		(2) INFORMATION FOR SEQ ID :110:	
5		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 182 base pairs	
		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
10			
		(xi) SEQUENCE DESCRIPTION: SEQ ID :110:	
15		ATGTGCCAAG TAAAAAATCA ATTNGTNGCC TTTTTCCATT NCGCGGACAC	50
		CCATAGGCAC CAAAAAAAGG TGCTAATAAG TAACATGTTT TAAGATGCAG	100
20		AATAAGCTAT GGAAACAAGG AATGCTCCAA GTGTCCCAGT CTTTCTCCTT	150
		GCACTCCTTG TTAATAACAA TACACTATAT CA	182
		(2) INFORMATION FOR SEQ ID :111:	
25		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 94 base pairs	
		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
30			
		(xi) SEQUENCE DESCRIPTION: SEQ ID :111:	
35		GAAGGTGAGA ATAGGGTAGG GGAAACAGTA GGACAGGAAG TATTCACGTA	50
		CNTCAAAACC AATGGTAGAA CATCACATTT CAAACTGCAA ACCA	94
40		(2) INFORMATION FOR SEQ ID :112:	
		(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 92 base pairs

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75

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
· <sub>5</sub>		
3		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :112:	
10	TAGGGCAGTG AAACCTAATC TGCCTGATGC TATAANTGAN TGAATTACAT	50
10	GNTCATTNGT TAAATTTTGT TCTAAACCCA TTAGGAAATT GT	92
	(2) INFORMATION FOR SEQ ID :113:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 152 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :113:	
25	GATTGTTTTT GCATTGCGTG TGTCACACAG CAGCACAAAG ACAATATATG	50
	TAAGCGTNNA TACACCAGAT TTGACACAAG AGATAGCGAA CACCACAAAG	100
••	ATTAGGACAG ACCGCGTATA GTAGCTCTGA GGAACTCCAA GAATCTAGAG	150
30	GG	152
	(2) INFORMATION FOR SEQ ID :114:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 182 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

(xi) SEQUENCE DESCRIPTION: SEQ ID :114: TTGGCACTGA CATCCAGGAC AACAAATGCA GCTGGCTGGT GGTTTCAGTG 50 TCTGCAACGG GCCACTCCAG AACAGTACCA ATCCTGAAGG AAAATACNTG 100 5 GCAGAAGGAG GCTGAGAAAG TGGCTCCGTG AAGGCNCTAT AGAGGGCTGA 150 182 TCTGCCAGCA TGTCTTCAAT ATGAGGAAGG CA 10 (2) INFORMATION FOR SEQ ID :115: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 182 base pairs 15 (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 20 (xi) SEQUENCE DESCRIPTION: SEQ ID :115: GGCACTGACA TCCAGGACAA CAAATGCAGC TGGCTGGTGG TTTCAGTGTC 50 25 TGCAACGGGC CACTCCAGAA CAGTACCAAT CCTGAAGGAA AATACNTGGC 100 AGAAGGAGGC TGAGAAAGTG GCTCCGTGAA GGCNCTATAG AGGGCTGATC 150 TGCCAGCATG TCTTCAATAT GAGGAAGGCA NT 182 30 (2) INFORMATION FOR SEQ ID :116: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 227 base pairs (B) TYPE: nucleic acid 35 (C) STRANDEDNESS: double (D) TOPOLOGY: linear

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :116:

	GAGGTTCTTG AATATGTATT TTTTACTGAA AAAATCATTC ATAAANTAAC	50
	ATACAAAAAT GTACAAACAC ATGAGTAAAT AATGTAATGA CAAAGGACTA	100
· 5	TTTTCGGAAA AGTGTTTTTT AAAACANNCT AGATTTCAGT GCAAAAATGT	150
	ACCCCTGGCA CCTCTTAAAA CGTAAGAGCA AGCTCAAAAA CACGTAGTGA	200
	TGGAAATAAG CTAGCTACGC TCAATGC	227
10	(2) INFORMATION FOR SEQ ID :117:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 172 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :117:	
	CGAGAGATTG GTAATGAGGA AGCAATTTGG AGGGGNGGAA GCTACAANGA	50
25	NNNNGGGAAT TACAACAATC AGTCTTCAAA TTTTGGACCC ATGAAGGGAG	100
25	NNNNGGGAAT TACAACAATC AGTCTTCAAA TITTTGGACCC ATGAAGGGAG	100
	GAAATTTTGG AGGCAGAAGC TCTGGCCCCT ATGGCGGTGG AGGCCAATAC	150
	TTGCAAAACC ACGAAACCAG GT	172
30	(2) INFORMATION FOR SEQ ID :118:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 210 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

(xi) SEQUENCE DESCRIPTION: SEQ ID :118:

	AATGATGGAA GCAATTTTGG AGGTGGTGGA AGCTACAATG ATTTTGGAAT	50
	TACAACAATA GTCTTCAAAT NNGGACCCAT GAAGGGAGGA AATTTTGGAG	100
5	GCAGAAGCTC TGCCCCTATG NCGTGGAGGC CAATACTTTG CAAAACCACG	150
	ARACCARGET GGCTATGGCG GTTCCAGCAG CAGCAGTAGC TATGGCAGTG	_ 200
	GCAGAAGATT	210
10	(2) INFORMATION FOR SEQ ID :119:	
	(i) SEQUENCE CHARACTERISTICS:	•
	(A) LENGTH: 95 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	·	
20	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :119:	
	GGTAAACACA AAGAGTTTCT GATAGTGTCT GCACAACAGC AAACCAACAT	50
25	TTGGTGAGGA ATTAGCAATT TCTTGCCAAA GAAAATTGAT TCTGC	95
	(2) INFORMATION FOR SEQ ID :120:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 168 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :120:	
0.	GGAGTATTIN AANNITICAA ACTITATTAC ITAATGAAAC AGTITCIATA	50
40	TACTGCTTCC AATATACTTT AATCCTTTTT TTCTCGTTAA ATTTTTTTTG	100

	TTGTTCTTCA GTTGAGCTGA GATACTTTTA ATTACTTTTT ATTAACTGCT	150
	TCCAGAAACC GTAACAGG	168
5	(2) INFORMATION FOR SEQ ID :121:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 231 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :121:	
	GGAGTATTTA TCTTTCAAAC TCCNTACTNA GTGAAACAGT TTCTATACCA	50
20	CTGCTTCCAA TTACTANCTN TTTTNTCNGT TAAATTTTCN NCTGTTTTTC	100
	AGTTGAGCTG AGATACTTTT AATATNNNGT NACTGCTTCC AGAAACCGTA	150
	ACAGGTGCAG GAATAATTGA TGATATCCAA GTAGAGGCTG ATGNCAGCTA	200
25	ATACATACTT CGGTGACNTT ATGCATCATG A  (2) INFORMATION FOR SEQ ID :122:	231
	(2) INFORMATION FOR SEQ ID :122:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 174 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :122:	
40	TCTATGGCAT GAATGTTTGC AACCAACNNN NNGGAAAGCC TTAAAGGAAT	50
	ACCTCTTCAC ATACCACACC CTCACAATCC TCTACCCAAT CCTCCACTAC	100

•	ACACCATTGT ACGGTGTACA ATGTCATGGG ATCAGGTGTT CAAACTGATT	150
	GGAATCTTTC TGAAAAGGAT ATGA	174
5	(2) INFORMATION FOR SEQ ID :123:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 170 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :123:	
	CTNNACAGGA GAAGNAAGTA ATGATCATTC CCCAAAAATG TTCTGTTATC	50
	AACTGNNTTT ATAAAAAATC GATTGTGGGT AGAAGCAGAG AAAAGGCACT	100
20	TAGTAAAGAT ACTACATGAN GAAAAANNTC TGCCCTTTGA ATTCTTANGA	150
	AACATNNTNG NNGAATCAAT	170
25	(2) INFORMATION FOR SEQ ID :124:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 157 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :124:	
	AAGTAATGAT CATTCCCCAA AAATGTTCTG TTATCAACTG NNTTTATAAA	50
40	AAATCGATTG TGGGTAGAAG CAGAGAAAAG GCACTTAGTA AAGATACTAC	100
70	ATGANGAAAA ANNTCTGCCC TTTGAATTCT TANGAAACAT NNTNGNNGAA	150

	TCAATNT	157
	(2) INFORMATION FOR SEQ ID :125:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 169 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :125:	
		50
15	CAACTTGAAA TACATTATGA TGTCTGATAT GATTAAATAT CATTGAGNAT	50
	CTTGCAAACA AAAAAAGCAA AAAATTAAAT CTCCATATCA ATCTTAAATT	100
	CTTGGCATAT TTACTTCTGG TAAATATTAC TTCTGGTCCT TATTCTATAT	150
20		
	GTGTTATTGA AATTGTGTT	169
	(2) INFORMATION FOR SEQ ID :126:	
	(2) INTOMINITION TON DEG TO VIEW	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 90 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	•••	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :126:	
35	GTTTNGTTNN NNNNTGTTCC ACCTTTTGTT GAATTTTAGT TGTTAGGCTG	50
JJ		
	AACCTCCGAG CAGTTTNAGG ACTTGCCTGA GTTTTTCTTC	90
	(2) INFORMATION FOR SEQ ID :127:	
40	ALL STOURNER OUND SETTINGS.	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 160 base pairs	

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

(D) TOPOLOGY: linear 5 (xi) SEQUENCE DESCRIPTION: SEQ ID :127: TTTAGTTTAC TTCTGTTCCA CCTTTTATTG AAATATTAGT TGTTAGGCTG 50 10 AAAGCCTCCA GTTAAGAACT TGCTGAGTTT TTTTGTTCAG CAACTTGACA 100 TTTACTATGC GCATTATATA NCTCAATTAT GTCTGTTTTT TATGCTAAGT 150 160 15 AGGAAAACCA (2) INFORMATION FOR SEQ ID :128: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 150 base pairs 20 (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 25 (xi) SEQUENCE DESCRIPTION: SEQ ID :128: GCCCACAACT TACATCCTCA TTATTGGCGC CTACAAACTC AACTACGAAC 50 30 100 ACACTCACAG TCGCATCATA ATCTTTTGAG GACTTCAAAC TTACTCGGCT ACCGCTTTTT GATGACTTCT AGCAAGCCTC GCTAACCTCC CTTACCCCCC 150 35 (2) INFORMATION FOR SEQ ID :129: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 182 base pairs (B) TYPE: nucleic acid 40 (C) STRANDEDNESS: double (D) TOPOLOGY: linear

	(xi) SEQUENCE DESCRIPTION: SEQ ID :129:	
_	AGAGAGACAG ACACCATGGA GCCACAGGGG CAAGAGGNNG NTTTCCGAAG	50
5	CAGGGGANNG GCTATCACTC GGACGGACCN NNGCTCAACG AGTCCCACGA	100
	GAACACACCA GAAATTTGTC ATTGCACTCA ACCAAAATCG ATATCAGCAA	150
10	TGAAAAACCC AAAACAGTTA CGANGCTAAT CC	182
	(2) INFORMATION FOR SEQ ID :130:	
	(i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 219 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :130:	
	,	
	GGACCATTCT GATCATCCTC ACTGGACGCC ACAGGGGCAA GAGGGTGGTT	50
25		100
	TTCCTGAAGC AGCTGGCTAG TGGCTTATTA CTGTGACTGG ACCTCTGGTC	100
	TCAATCGAGT TCCTCTACGA AGAACACACC AGAAATTTGT CATTGCCACT	150
30	TCAACCAAAA TCGATATCAG CAATGTAAAA ATCCCAAAAC ATNTTACCGA	200
	TGCTTACTTC AAGAAGAAG	219
	•	
	(2) INFORMATION FOR SEQ ID :131:	
35		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 181 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :131:	
	AATAATTCAT CCACTTATGG AGGAGGAGGA GAATGTGGAA GAGGTAAAAA	50
5	GCTGGGCACA AGTTCATATG CCTATGAGTC AGTAAAGACT GAAGTAATGT	100
	CCTATGTTGA GCTGGTTATT TTGATATATG ATAATAATTA TCTTTGTAGT	150
	AGAACATCGT TAACGGAATC ACAGATATAT C	181
10	(2) INFORMATION FOR SEQ ID :132:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 188 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) .TOPOLOGY: linear	
	•	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :132:	
	GACCAGCAGC TGTGGACATT ATGAGAAAGT GAAACCTGAG ATCCNCTGTT	50
25	GATTGAGAAA TGCAACACCT CAAAATGNGG GACAGCTCCT GATTACCAGG	100
	TAGAAGATGN AAACAACTGG GGTGTCCATT CAGGAGGAAA CAATTGCAAG	150
30	CTAAGAACTG TTGAGAGTGA AGCTGCATTT TCTGNACC	188
30	(2) INFORMATION FOR SEQ ID :133:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 190 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :133:

85

	GAGGITGGGI CGITGCATCC ATCATCAGGA GITGACTIGI TCIGAGCAAC	50
	TGAACAGAAC ACACCGCGAT GCTCTCGACA CTCCGCTCCT GGACTTCAGT	100
5	CACGAGTGAG TTGATGGTGA CTTGACCTGA GAGATTTCAC AGAAGCTCTG	150
	TGACTTGGTT GTGGAAGAAA TCTGAACTGT TCAAGTTAAC	. 190
	(2) INFORMATION FOR SEQ ID :134:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 235 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
17	(2) 201020010 231000	
	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :134:	
20		
	ACATTACGAT CACTGATAGT TGGTGTGCGA CTGAAACCCA CATTNTGGTC	50
	AATCTCCTCG TAGAGCTTCT TCTTCACCTG AGGATTGGCA GCAGGAAGGC	100
25	CAGGGTCCAT TTAACTAAGA GGTGGTGATC TCCACGCCAG CCCCAAAGAT	150
	GTCCCCTATA TGGTGAGAAT GNGTCATCTG AAAGCAGCTC TGAGTCTTGA	200
	TCTGGGCCAG CATTGCCATT ATTGAGTTTA TCTAG	235
30		•
	(2) INFORMATION FOR SEQ ID :135:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 147 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :135:

•	GAGAAACAGT ACCATCCANG ACACGATGTG GTGGAGGTTG ACNCCGCTGT	50
	ACCCCAGAGG AGCNCCACCT GTCCAAGATG CAGCAGAACA CTACAAAATC	100
. 5	AACTATGTTT TTTAGCAGAT GCAGGACTAG ACCCCCACGC AGCTCTG	147
	(2) INFORMATION FOR SEQ ID :136:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 171 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(D) TOPOLOGI: Timeat	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :136:	
20	GAAAAATGNG TTGANCCATT CATCCACAAA TTGACTTGCC TGAACAACCA	50
20	CCAAACAATA CACTAATGNT TCACACNTTT NCTTTTACTT GNACNTTAAG	100
	NTCCCANTGA GTCACGGTGA CTTACCCTAA ACATCTCAAN NGTNNTCTGA	150
25	CTNAGAATGC GGAGGAGATC T	171
	(2) INFORMATION FOR SEQ ID :137:	
	(i) SEQUENCE CHARACTERISTICS:	•
30	(A) LENGTH: 159 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(5) 101020011 12.1001	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :137:	
40	ACATATATGT GGTAGGATAG AGAGATGGNN NNNGTGTATG ACATAGGTGT	50
40	TTCTCCTCTC ATCACCCTTT ATCTCTTATC TCCCCTCACT CACCCCATTC	100

	TGTTGTGGTA ATATGTGAGG AGTATAGGCT GTGACTAGTA TGTTGAGTCT	150
	GTAAGTAGG	159
5	(2) INFORMATION FOR SEQ ID :138:	
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 179 base pairs	
10	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :138:	
	CCCACGACTT ACATCCTATN ACNCTTCGCC TAGCAAACTA AAACTACGAC	50
20	NCACTCACAA TCGCTCATAA TCTCTTNAGG ACTTCAAACT NTCTCTNTGA	100
20	NCCTTTTGAT GACTTCTACA AGCCTCGCTA CCTCGCCTTA CCCCNTGTNC	150
	TNCGGGAGAA CTCTCTGTGC TGTACCAGT	179
25	(2) INFORMATION FOR SEQ ID :139:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 177 base pairs	
30	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	i de la companya de	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :139:	
	GACCTGGGAC GTAAATGATG AGACGGGTAC TTTGGCGGAC ATGAAGGAAC	50
40	TGGCATATGG AACCTTGGCT GTGAAGCTGC AGACTATAAG ACAGCATGAG	100
	ACGACAATTC TGCTACTGCA ATGATGACAT CGTTTCAGAC CACAAAAAGA	150

	AAGGCGATGA CCAGAGCCGC AAGGCNG	177
	(2) INFORMATION FOR SEQ ID :140:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 72 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :140:	
15	GTTTACAACA TTTACATCCT ATGAACTCAT GGATTATAAA ACATTTGTGA	50
	CTTATACTGT CTNTGTCAGT TA	72
20	(2) INFORMATION FOR SEQ ID :141:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 62 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :141:	
30	GTNGGCTGAA ATGAAANAAT AAAACCAAGA AACGAATTTA AGTATTNGTT	50
	TTAGTACGNA AA	62
35	(2) INFORMATION FOR SEQ ID :142:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 127 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :142:	
_	ACCAGINNNI GATIGGIAAA IGGGAAATAI AATIGATICI GATCACICII	50
5	GGTCAGCTTC TCTTTCTTTA TCTTTCTTTC TCCTTTTTTA AGAAAACGAG	100
	TTAAGTTTAA CAGTTTTGCA TTACAGG	127
10	(2) INFORMATION FOR SEQ ID :143:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 198 base pairs	
	(B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(wi) SPOUPING DESCRIPTION, SPO. ID . 142	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :143:	
	AATATAAAAG ACAGCAGTTT CACATTTCAC ATATTTGAAA AACATTTCAA	50
25	AACCCTCTAA TAAGTATTTA ATGAAAATAA ATTTATCGAA GAGAAACAAT	100
	GACCACAAAA TTAATACTAC CAAATCATTA CTGAGACTTT TTGCATTACA	150
	ATATTTGGAG AGTAGGTGAA GAAAATATAG AACAGAACAT GNACATTT	198
30	(2) INFORMATION FOR SEQ ID :144:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 174 base pairs	
	(B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID :144:	
	GTTTCTCTNT ACGTCATCCA CCTTGACATG ATGGGTCAGA AACAAATGGA	50

90 -

	AATCCAGAGN CAAGTCCTCC AGGGTTGCAC CAGGGNNTAC CTAAAGCTTG	100
	TTGCCTTTTC TTGTGCTGTT TATGCGTGTA GAGCACTCAA GAAAGTTCTG	150
5	AAACTGCTTT GTATCTGCTT TGNA	174
	(2) INFORMATION FOR SEQ ID :145:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 156 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :145:	
20	GAGAAATAGT ACTTTAAAAT AAAACTAACA TGGTTTGATC AGCTTGAAAT	50
20	AAGATTCATA AAATGTACCT TTTTTGATTG TTTTGTTCTN GAGTTTTCGA	100
	TTGAGANCAT TTGGTAAAGA TAAAGAGGTT TCCTGGGTGG CAAAAAATTA	150
25	TTTTGG	156
	(2) INFORMATION FOR SEQ ID :146:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 151 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
<b>3</b> 5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :146:	
4-	AAGATTCNNN NNTCCATTGA ATGTTACCTG TGCCAGAATT AGAAAAGGGG	50
40	GTTGGAAATT GGCTGTTTTG TTAAAATATA TCTTTTAGTG TGCTTTAAAG	100

	.•	TAGATAGTAT ACTITACATT TATAAAAAA ATCAAATTTT GTTCTTTAAT	150
		T	151
· 5		(2) INFORMATION FOR SEQ ID :147:	
		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 177 base pairs	
		(B) TYPE: nucleic acid	
10		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
15		(xi) SEQUENCE DESCRIPTION: SEQ ID :147:	
		CTTTATTTTT CTTATACAGA TTCAGAGAAG TAAAANNCAG TACCAAACTC	50
20		CAGGTAANNT GGTTTGATCT GATCGATTTG GCTGCATACT TTCGGTACGT	100
20		ATAACATTCT AAACTTAAAA TAGAAATTTT TATATTACAA AACGAGGAAG	150
		TAAAATTTTA AAAGTTAAAG TACTAGC	177
25		(2) INFORMATION FOR SEQ ID :148:	
		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 148 base pairs	
		(B) TYPE: nucleic acid	
30		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
35		(xi) SEQUENCE DESCRIPTION: SEQ ID :148:	
		GATTCHNNNH TCCATTGAAT GTTACCTGTG CCAGAATTAG AAAAGGGGGT	50
40		TGGAAATTGG CTGTTTTGTT AAAATATATC TTTTAGTGTG CTTTAAAGTA	100
		GATAGTATAC TTTACATTTA TAAAAAAAAT CAAATTTTGT TCTTTAAT	148

	(2) INFORMATION FOR SEQ ID :149:	
5	<ul> <li>(i) SEQUENCE CH: ACTERISTICS:</li> <li>(A) LENGTH: 204 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :149:	
	AGATTCNNNN NTGGNATTGA ATGTTACCTG TGCCAGAATT AGAAAAGGGG	50
15	GTTGGAAATT GGCTGTTTTG TTAAAATATA TCTTTTAGTG TGCTTTAAAG	100
	TAGATAGTAT ACTITACATT TATAAAAAA ATCAAATTTT GTTCTTTATT	150
20	TTGTGTGTGC CTGTGATGTT TTTCTAGAGT GAATTATAGT ATTGACGTGA	200
20	ATCC	204
	(2) INFORMATION FOR SEQ ID :150:	
25	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 93 base pairs  (B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :150:	
35	AACATCGAGG TCGTAAACCC TATTGTTGAT ATGGATCTCT ATGAATAGGA	50
	TTGCGCTGTT ATCTCTAGGG AACCTCACCG TTGGCAAGTT ATT	93
46	(2) INFORMATION FOR SEQ ID :151:	
40	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 151 base pairs	

	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :151:	
10	AATCGAGAGA AAAAATGATG ACACTGTAGC AATATCGTCG GANTCCACCT	50
	ACTTTGGGAT CAGCCTATCC ATCCGTGTCT TCCTATTTAA ATCGTCTATC	100
	CTCTATCCTT CCCCTGTCTT TTTNTGAAAA GGAAAAAAAC CAGGAAGGTG	150
15	Ŧ	151
	(2) INFORMATION FOR SEQ ID :152:	
20	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 109 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	,
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :152:	
30	TCTGAGAGGA ATACTNNTAA GTGCAATGAA TATTGCAAAT TTTCCCCCCT	50
	CTAAGTAATT CCCGATATTA GCAAANCANN NANATTAATG TCCCAGTGAA	100
	TGTAGCCTC	109
35	(2) INFORMATION FOR SEQ ID :153:	
10	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 136 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :153:	
_	AAAATTATTT TCACAGTCCC CCCCAACTCT CATTGCGTCG TTAAAGTCCC	50
5	TCCAATCCTT TTTTAGTTGT GAAAAAATAA GGGGCCTTTA AAGGAGGAGG	100
	AGGAAAAGGG GAAAAAAACC CATAATGGGC CTAAAA	136
10	(2) INFORMATION FOR SEQ ID :154:	
	(1) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 160 base pairs	
	(B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :154:	
	CATCTTCATC ACCATCACAA TACTCATCAT CACCACCCTT CATNCACTAT	50
25	CATCTTCTAT GACTGCAAAC TTCTTATCTT TCTCTTCATT ATAGAAAGTT	100
	TCAAGATGAG TATACGCATC TATCATTCGA ATTGTGTCAT TAATTTGTAG	150
	GGCCTCATTG	160
30	(2) INFORMATION FOR SEQ ID :155:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 191 base pairs	
	(B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID :155:	

ACCAGINNNN NNNGGICAAA TAGGGAAATA TAATICGAIC TCTCGAATCA

	ACTCTCTGGG TCAGCTTTCT NCTTNTCTTC TATCTTTNCT TNTCTCCTTT	100
	TTTTAAGAAA AACGAGTTAA GTCTTAACAG TTCTCGCATT ACAGGCTTGT	150
5	GACTTCATGC TTACTGTAAA GTGGAAGTTG AGATATTTTA A	191
	(2) INFORMATION FOR SEQ ID :156:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 139 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :156:	
20	CAACTGAACG CTTTGGTCAG GCTGCTACAA TGGAAGGAAT TGNGGGCNAN	50
	TTGGTGGAAC TCCTCCTGCN NTCAACCGTG CAGCTCCTGG AGCTGAATTT	100
	GCCCCAAACA AACGTCGCCG ATACTAATAA GTTGCAGTG	139
25	(2) INFORMATION FOR SEQ ID :157:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 172 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :157:	
-	(WE) DESCRICE DESCRIPTION, SEQ ID :13/:	
	GGTACAGAGC ACTCTGTACC AACACAGA ATTTACTGTT CTGCAAATGA	50
40	CCAATACTAA AAATTTATAA AGATGTGCAC AATTNNNNGC AGGCAATCTT	100
	TCTTTTGTTT ACAAGATACA ACATTTAACA GTTATTAAAT GTAATCCTGA	150

	AGCACCCGCA AATTTACCTT TG	172
	(2) INFORMATION FOR SEQ ID :158:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 93 base pairs	
	(B) TYPE: nucleic acid	_
	(C) STRANDEDNESS: double	-
	(D) TOPOLOGY: linear	
10		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :158:	
15	GGGTGGCTGT TNNGTATATC TCGTTAGTAA ATGTACATGC TCTTCAGGTT	50
	CTAGGGCTCC TGTTAGGGGA GGGAGAAATG TTGGAAGNGG GGG	93
20	(2) INFORMATION FOR SEQ ID :159:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 102 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :159:	
30	GNATTTTTT ATTGATATAT CATAGTTGTA CAAACATTTG GGAGTNCANG	50
	TNGATACTTT GATACTATCG TGTNNNNNGG ATAATCACCA AATTGGATTC	100
35	CA	102
	(2) INFORMATION FOR SEQ ID :160:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 205 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

.

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :160:	
	GCTTTTNNNN NNNNNNNNN AGGTTTATAT TTACAATAAT TATCTTCCTA	50
	TAGAAGCAAT AANNCNAGTA TTCTCCAGTA ACAACACANN NNNATATTCT	100
10	ACTCATCAGA GTTGGGAAAA ATAGGAATAA AGCAGATTCC ATACAGAAAT	150
٠	ACCGTACTCT GCATATGTAC AAATAAATTC AATATATTAA ATCATTTTGA	200
15	GCGGA	205
	(2) INFORMATION FOR SEQ ID :161:	
20	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 150 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :161:	
30	AACTTTTTTA ATGGGTCTCA AAATCTCTGA GACAAAATTA CTNNGNNNAA	50
	AGTTGTTTTC CATATAAAAA ANNNNNNTGA TTTTTAAAAA ACTAANNAAC	100
	TTAAAAACNT GCCACACGCA AAAAAAGAAA CCAAAAGTGG GNCACCAAAA	150
35	(2) INFORMATION FOR SEQ ID :162:	
	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 77 base pairs</li><li>(B) TYPE: nucleic acid</li></ul>	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

-	(xi) SEQUENCE DESCRIPTION: SEQ ID :162:	
· 5	TATTCAAAAG AAAAACATGG GTAAAAATGA TAGTGTTAAA TCTTGGCTCT	50
5	GTGTACATAG ATAGATACCT GTTACAG	77
٠.	(2) INFORMATION FOR SEQ ID :163:	
10	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 182 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :163:	
20	GAAAATTATT TTCACATCCC CCCCAACTTC TTGCTCTTAA TCCTCATCTT	50
	TTAGTTGAAG AATAAGGCTT AAGAGAGAGA AAGGAAAAAC CATAATGGCT	100
25	AACTTAGCAG CACAACACGG TTCTTTTATC AAGGCGTNAT CATCATTTCT	150
<b>4</b> 5	CAAACTGACA TGCTACAGAA ATGTCTTCCA AA	182
	(2) INFORMATION FOR SEQ ID :164:	
30	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 182 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li></ul>	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :164:	
40	GAGGGAGCAA AGAGAGCCAT AAAGGCTCGT GCTGGGAAAG AAAGCTGTTA	50

TGCTTAGACT TCTCTAGGTG AACTCAGAGT CTTCAAAGAG GAAATGTTAC

	AAATTGTCAC CCGCCAGCTT TCTGGCCAGT AAGCAGAATG CCAGGTTGCT	150
	CAGATTCACA GACATTTGCA AAACAGAAGA TG	182
5	(2) INFORMATION FOR SEQ ID :165:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 119 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :165:	
	GTATCTCCCT CTACATCCCT CCCGAAATAC TAGGAATACT TATTCTATAT	50
20	GAGACATATA TACCACCCAA GTTTTAACAC CATATCCCAT CGGCTGTTAG	100
20	TGTATATAAA AAGAAATAA	119
	(2) INFORMATION FOR SEQ ID :166:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 193 base pairs	
	. (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :166:	
35	GTACAAAGCC ACTCATCCTC GTGTGCCTAT CACGTTTTCC AAACACATAG	50
	GATCCCATCT CAGGAGCAGG ACCAGTGTTT AGCTAGATTA AACTTCGCTG	100
40	GTGATCTTGT TGATGCATAT AAAGTAATCT GGCATATATG GTTAAATTCA	150
	AGATGTTATG GCAGAAGTGA CTTGTTTTGC TCAACAAGCA TTG	193

	(2) INFORMATION FOR SEQ ID	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 185 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :167:	
	GTTCTGACTN AGAACTGAGC ACATAGCATT GACGCGGTAC CCTTGGAGAG	50
	GITCIGACIN AGAACIGAGE ACAIAGGAII GACGCGGIAC COIIGCACA	
15	GGTGTGCTAG GAGGAGTGCT TGGCGAATTT GGACACGTAC TAATGTCTCT	100
13	GGIGIGGIAG GAGGAGIEEE LOCKARIEEE COMMISSION	
	GAGCCAGTCT GAATCTCTGT GAAGATGCCC CAGTGGAGGT GGCTGAAGAT	150
	•	
	TAAATGGACA GTTTATAAAG TGTTCTGGA GCCGA	185
20		
	(2) INFORMATION FOR SEQ ID :168:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 163 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :168:	
	· · · · · · · · · · · · · · · · · · ·	
	GGACAACACA GCACCCATCC ACTACCCATT CAGAATTTAT ATAGAATATG	50
35	TACCCATGAT TATCTAGGTG AATCAATGCA ACAGTAGCTC TGATGTCCAG	100
	ATTTCCTAGT CTATTATTTT GTGTACAGAT CCTCTAACCA CTTAGAAATA	150
	ATTTTTAAAA ATA	163
40	AND THE PARTIES AND THE TAX AND THE	
	(2) INFORMATION FOR SEQ ID :169:	

101

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 202 base pairs(B) TYPE: nucleic acid

5	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :169:	
10	AGACAAATTC NNNNTNNNNN NTGCCTGATA ATTTCAGATG CCACCGTATA	50
	GCAAAGGGTG AACATGTTTT CAACCCTTTA ACTTTTTACG GTGTTTGAAG	100
15	ACCAGCTACT CCTTAATATT TATCAATGGA TTAAGAAGTT TAAGATTTTG	150
	CAGATTTACA ATTTGGGTTT TTGTCTGGAG TTGCTTCGGT TTGAAGCCCC	200
20	СТ	202
	(2) INFORMATION FOR SEQ ID :170:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 168 base pairs	
25	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(2) 101020011 12	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :170:	
35	TCAGGGAACC AAAAAACTGG CTTGCTTGGC ACCCAGGGAC AGTAGCTGTT	50
	TGGCTCTCCA CCCAATTAAA AAAACAAATC CCTGCCCTTT CCCCCACCCC	100
	ACTAGCTAAG CAAGAGCAGA GCTCTGATGA AGAGCCAGTG CCGGGTGCCT	150
	GGTGCCCAGG GCTGTAAA	168
40	(2) INFORMATION FOR SEQ ID :171:	

(i) SEQUENCE CHARACTERISTICS:

	(A) LENGTH: 144 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :171:	
10	AGAAGTCAAC TAAAGCTTCA ATGCATCAAT TTATAANGCC TCANAGATCA	50
	GCAATTTATG ACACTTACAT TTACAGTCGA CCTTTACTAA CCAGGCAAAC	100
15	TTCCCGAAAT GATCAGGACT GATTCATCTC CTGAAATTNN CNGT	144
	(2) INFORMATION FOR SEQ ID :172:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 91 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	• •	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :172:	
	ACCCACAGNN NNNACCTAGA GGCCCAGCGC CCAGAGAGGC ACGTAGAAAT	50
30		91
	GGGGACAGCA CGTTTATAGA CCACCAGAAA TTGAAGAGGA A	21
	(2) INFORMATION FOR SEQ ID :173:	
35	(i) SEQUENCE CHARACTERISTICS:	,
	(A) LENGTH: 204 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

	(xi) SEQUENCE DESCRIPTION: SEQ ID :173:	
	GATTTTTAA TGGGTNGCCT CTTTTAGCTT GGAATATTAC GTTTACTTTA	50
· <sub>5</sub>	ATCCAAGTCT AGGCCTTTTA AAGGGTCCTT AAAATTAAAG TTCAGAATGT	100
	GAATCCCTTT GACATCTATT ACAGGTTATA GGACCTTTTT GGTGTGATTA	. 150
	CGGTTTTCAA TACGATTGTA TAAATGAAGT TAACTTGGCA GAAGTTAAAA	200
10	TGGA	204
	(2) INFORMATION FOR SEQ ID :174:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 241 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(2)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :174:	
25	GTAAATTTCA CTACATCTTT TNNTNTGACT TTCATGCATT TCTCATACAT	50
	THE	100
30 ·	ACGAAAGGCG GTTCAATTCA TCAACTTGAA ATGACTATTT ATTTTTNAGG	150
30 .	ATTTTTTAGG GGAAGAGTAC CCATTTCGTT TATAAAAACA GATGACAAAT	200
	TTCTTAAAGA AACAGAAGCA CAATACTTTC GAAATACAAC G	241
35	(2) INFORMATION FOR SEQ ID :175:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 211 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
- <del>-</del>	(D) TOROLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :1/5:	
	GGTGGGCTCN NNNANNANNG TTCTACACTG TGGTATAAAC TTGTCGTGGT	50
.5	TCTCGTGATA GAAAACAGAC ACTGACCTTG GGTATAGTGG GCCTATAAAT	100
	AACAAACCCT TGGGTACTCC TGAATAGGGG CAGGGCCCCC TGGGCCTCCC	150
10	TTACAGGTTT CTTCAGGGAA ATGGTCCCTG GGATAATTCT TTAGGGCCCT	200
	TTGGCCCTTT T	211
15	(2) INFORMATION FOR SEQ ID :176:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 252 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :176:	
23	AAAATAAGAA TAAACATCCA TAATAGTNAT AGATANATCC NTTTATTTAG	50
	NACATCAGCA ACGACTGCTT CACACCAAAT CCCTTCCTCT GNGAATGATN	100
30	TATATAACTC TAGTACTGCT TTCCATGAAG AACCTTGCAA ATTGATTGAA	150
	AGTCCAGGAT NNCTCGCTAA TCCTCCACCA TAAGATTTCT GACCTATGAT	200
35	AACTCCAAGG TGGCAAACAG AGAAATCAAC TTCCTTATAA ANAAATCCNA	250
<b>.</b>	AT	252
	(2) INFORMATION FOR SEQ ID :177:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 279 base pairs(B) TYPE: nucleic acid

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(C) STRANDEDNESS: double(D) TOPOLOGY: linear

· 5	(xi) SEQUENCE DESCRIPTION: SEQ ID :177:	
	GCGGGCGACT TTCCATCCCT CGAACCAAGG CATGTTAGCA CTTGNCTCCA	50
10	GCATGTTGTC ACCATTCCAA CCAGAAATAG CACAAATGCT ACTGCGCGAG	100
	TTGCAGCCAA TCTTCTCAAA GCAAACCGAC TTCCTAACAA CTNTCTACAT	150
15	CTGGCTCGCT GCAGGCGACT CAATGAAATC CATCTTTAAC ACCACAATCA	200
	TTGTTTNACA CCCAGTGTGC AAGCCAGGAG GGCATGTTCT GAGTCTNTCC	250
	ATCTGAAGAT ACCAGCTTCA AATACTAAT	279
20	(2) INFORMATION FOR SEQ ID :178:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 157 base pairs	
	(B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :178:	
	TATGCCCTGA AATGAAACCT CTAAGTTTGA CAAAAATACCC ACAAAAACAG	50
35	ACCTTCCTNG TTAACACTTT ATAAGAAGGT GTGACATTTG GTGGGTGGTC	100
	GTTCTCAATT TATAAAANAA TAAATGACTT TAAAGGAGAA ATAAATTTAT	150
	GTCAGGA	157
40	(2) INFORMATION FOR SEQ ID :179:	

(i) SEQUENCE CHARACTERISTICS:

106

(A) LENGTH: 39 base pairs

	(B) TYPE: nucl ic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5	• •	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :179:	
10	GATAATGCAA CTTTTGACAG GAAAGCGCGA TTTTACTAT	39
	(2) INFORMATION FOR SEQ ID :180:	
	(i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 157 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :180:	
	•	
	GCAAACTCAA ACTACGGACG CACTCACAAT CGCTCATAAT CCTCTCTAAG	50
25		
	GACTTAAACT CTACTACACT AATACTTTTT GATGACTTCT AACAAGCCTC	100
	GCTAACCTCC CTTACCCCCC ACTATTAACA CGGGAGAACT CTCTGTCTAG	150
30	TACCACA	157
	(2) INFORMATION FOR SEQ ID :181:	
	(i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 195 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(=,	
40		

(xi) SEQUENCE DESCRIPTION: SEQ ID :181:

	CCATCCAGGC CAAATAAGCN CCGGCTATGC CCNTGTATTG GATTGCCACA	50
	CGNCTCACAT TGCATGCAAT TTGCTGAGCT GAAGGAAAAG ATTGATCNCC	100
5	ATTCTGGTAA AAACTGGAAG ATGACCCTAA ATTTTGAAGT TGATGATGTG	150
	CCATGTGATA TGGTTCTGAC AAACCCATGT GCGTTGAGAG CTTTT	195
	(2) INFORMATION FOR SEQ ID :182:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 146 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	And A CROUDINGS PROCESSING OF A 100	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :182:	
20	CATGGTCTTA ACCAGTGTCA GATGGAATCA GTGGATAAAT CCCCAGGTTT	50
	GTTTGTCCTT CAAATGGGAC AATTTGAGGA ATGCTTTAGG CAGAGGACTC	100
25	AGATGACAGA GCGCCAACCA CCCACAATAG AAACCTGCTC ATCACA	146
	45.4 TUDODY DE CO. DO CO.	
	(2) INFORMATION FOR SEQ ID :183:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 50 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :183:	
	TAGAGGAATA GGGNNNGNGA CGCCCCNAGT TGTAGGGACG GACGGAGGAC	50
40		- J <b>u</b>
	(2) INFORMATION FOR SEQ ID :184:	

108

(i) SEQUENCE CHARACTERISTICS:

	(A) LENGTH: 248 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	C.
	(xi) SEQUENCE DESCRIPTION: SEQ ID :184:	
10		
	ACGNITACGG TCACTGATAG TTGATGTGCN NCTGAAACCC ACATCCGATC	50
	AATCTCCTCA TAGAGCTTCT TCTTCACCTG AGGATTGCGC AACAGGAAGG	100
15	CCAGGATCCA TTTACCACAG AGGCGGGATC TCCACGCCAA CCCCAAAGAT	150
	GTCCCCTATG ACGACGAGAA TGTGATTATC TGAAAGCAAC TTGATCTTGA	200
	TCTGGGCCAG CATGCCTCAT CTGATTCATC TCGCTTCCAT CAATGNGT	248
20		-
	(2) INFORMATION FOR SEQ ID :185:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 113 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :185:	
	AATGATGAGT AAAAGATTCA ACAACTCACA GCCCTGGGGG CACTCAGGCT	50
35	ACTGCTAAGG CCTGAGAGTT TTGCAAAAAT GCGCAGAGAA ACACCCTTTG	100
	AACGTGGCTT TCT	113
	(2) INFORMATION FOR SEQ ID :186:	
40		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 148 base pairs	

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(B) TYPE: nucleic acid(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :186:	
10	GGGCCCCTG ATCAATTCTT TGGATGCTTT TCAAATTTCC CAGGATCCCG	5
10	ATGTCGTCAT ACACTCCGAA CATGACCCTT TTTTCTTCCA ACGATCAACC	10
	ACTNCGNGGG ACGGGAGAGT GAGCCTTATA CCGATCAATC TGCACACC	14
15	(2) INFORMATION FOR SEQ ID :187:	
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 248 base pairs	
20	<ul><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :187:	
	TCCTTACTGT AAGAGCCATT TAAACGATTA AAATCCCACT NGCCATACCG	50
30	TAAGATGATA GGACCAACCA TACCTACCGA TCAAAAATTT ATCAATCCAA	100
	GCCAACTACA CTCCCACTGC TAAAAAGATG AAAGGACCAA TCAAAGATTT	150
	AATTAAACTA AAGGGAAAGA ATCAGAGACA GAGAATGAAG AAAGAAATTC	200
35	TAAGTTGCGA CGGACAAACC AGAACAGACA ATGAAGCCTT TCAACTGC	248
	(2) INFORMATION FOR SEQ ID :188:	
10	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 146 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li></ul>	

50

110

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :188:	
	TATGAAGAAG TGCAGCACTG GCCAACACCA GGGTTTACTG AATCATTTCA	. 50
	GTTTAATACA TAAGTGTCCA ATAATAATGT CAACCCTCCC TCGCCACAGC	100
10	CANTANTITG TCCTCACTGA GTTGGCAACA AGTGACTGCT GTGACT	146
	(2) INFORMATION FOR SEQ ID :189:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 81 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :189:	
25	ATTTACCACA AGGGACGATT TCCACACCAA CCCCAAAAAT GTCCCCTATG	50
	ACGACGAAAT GTGTATTTGA AACAGCTCTG A	81
	(2) INFORMATION FOR SEQ ID :190:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 136 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(a) 1010B011 110B1	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID :190:	
40	AAGTACAGCA TCCTGCTGCA AAAATGATTG TAATGNCTTC TCATATGCAA	50

	GAGCAAGAAT TGAAGATGCA CAAACTTCGT TCTGAATTTG TGAGCTTCCT	100
	GGATCAACTG AAGAACTTCT GAGGATTGAC CTGTCA	136
5	(2) INFORMATION FOR SEQ ID :191:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 152 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :191:	
	AGGATTTAAG ATGGGGACAG ACTGGTGAAA ATGCGGCTGA CTGGAAGGAA	50
20	ATGGGGCATA CGAGTAATAT GTACATATCA AACAATCAAT TGCCTCCTGA	100
	AATCAAAAAA TCAAATGGTG AAATGGAGCC TCCTTGATAG TTTAGGCCAA	150
	CA	152
25	(2) INFORMATION FOR SEQ ID :192:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 65 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :192:	
	TAAGCGAGGN NGTCTTTGAT TGCGTAGTAA GGTAAAGACG ATTTTATAGA	50
40	ATNAAGGTGA TTCCT	65
40	(2) INFORMATION FOR SEQ ID :193:	

112

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 2 9 base pairs

	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
. 5	(D) TOPOLOGY: linear	
	$\cdot$	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :193:	
10	AGGACCCAAA CTACCTTATT GCATTTGAAG TTTTACTTAT NCTATTATAA	50
	TCTAAGAGCC CACCCAACAA GGCACTACAC ATAGATGCTC ACACTCTATA	100
15	GGCTGCCTGA TCCTGGACCA CCTGGGGCCC TGATTATGAT CTCCACGGGG	150
	CTGTCAATGA CTAGGGAAAG CTTTTTAAGA CCCAGCGATC ATGCAATGGC	200
	TCAACCATGG CGAATCAAAG TTAGCATAAT GTCCCAGCAA ACAATGTTA	249
20	(2) INFORMATION FOR SEQ ID :194:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 194 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :194:	
	GGAAAGGGTG CCTCATCCCA GCAACCTATC CTTGTGGGNG ATGATCACTG	50
35	TGCTGCTTGC NNCTCATGGC AGAGCATTCA TGCCACGATT TAGGTGAATC	100
	GCTGCATATG TGACTGTCAT GAGATCCTAC TAGATGATCC TGACTAGAAT	150
40	GATAATTAAA AGTATTTACT TCGAAGCACC ATTTGAATGN TCAT	194
40	(2) INFORMATION FOR SEQ ID :195:	

(i) SEQUENCE CHARACTERISTICS:

	(A) LENGTH: 121 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
		•
••	(xi) SEQUENCE DESCRIPTION: SEQ ID :195:	
10	GTGATTTTAG TTTAAGGATA AGAAGCCACT ATATCAACGT CGGGGGGGTA	50
	TTTAAGTCAC ACACATAGTT AACAACNCNC GTNGCGTGCA ATAAATACCA	100
15	CATCCTTINA TATGNICIGN A	121
	(2) INFORMATION FOR SEQ ID :196:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 175 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :196:	
30	GGGCTTCNNN NNNNNCATG TGCACTTAGA ACCGTTACTA ACCGAAACAC	50
	CATTTGCTTG TCAACAATGT ACCCTTGACA GCAGGGAGAA ACTTCTTTAT	100
	AGTOTOTGOT TOAGACAAGA TTTACNGCTT TCTCCAAGGC CAGAGGCAAA	150
35	TTGTGACCAC AAGTCTTGTT TCTTG	175
	(2) INFORMATION FOR SEQ ID :197:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 273 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

## (D) TOPOLOGY: linear

· 5	(xi) SEQUENCE DESCRIPTION: SEQ ID :197:	
	ACTGGCAACT TCTATGTACC TGCAGAACCC AAATTGACAT TTGTCATCAG	50
	AATCAGAGGT ATCAATGAAA TGAGCCCAAA GGTTCGAAAG CTCGCAACTT	100
10	CTTCACCTTC ATCAAATCTT CAACGACCTT CGCAACTCAA CAAGCTTCTT	150
	ACAGTGAGGA TTGCAGAGCC TATATAGCTG ATACCCCAAT CTGAATCATA	200
15	AATGACTAAT CTACAAGCNT GTTATGCAAA ATAAATAAGA AACGACTTGC	250
	TTACAGATGC NTTTTAATTG TGG	273
20	(2) INFORMATION FOR SEQ ID :198:	
20	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 56 base pairs</li></ul>	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
,		
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :198:	
	GATTCCCCAA TAAGCAGACA CCTTGAACCA GCCTGGGGTG AGCGAAAGAT	50
	GNTATA	56 ,
35	(2) INFORMATION FOR SEQ ID :199:	
	(i) SEQUENCE CHARACTERISTICS:	
•	(A) LENGTH: 132 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :199:	
-	GGACGCTGNN NNNNNATCC TGCAATGCAC AGCACAGACC CCACCACAGG	50
5 .	GGTTTTATCC AGCCCAAATG TCAACAGTGT CAAGTTTAAG CAACTCTTAC	100
	CGAGTGGGAC TCAATTCCCN AGTTGTATGG AA	132
10	(2) INFORMATION FOR SEQ ID :200:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 284 base pairs	
	(B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	•	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :200:	
	AAACTTTTTN GCACTTACAC AGACGAGACT TCACTGCNTG AGGATCATAC	50
25	GACATTICAA TCGNACACAA ANTTAAAAAA TAAAACAAAT TTTAAAAAAC	100
23	CATNTTGAAT TTCCTTAAAA TTATTCCAAT ACTTTCCAAC TTAAAATTCA	150
	GAACAAATCC TCCTAGAGAC TATCAATACC AATATCTTCA CATTGCTCAG	200
30	CTGNTACATA CGNCCCACCA GTTCACAACT AATGACACAA CACTACATGN	250
	TCAAATCTTA TCTNNNATAG CACAGTAACA AAGT	284
35	(2) INFORMATION FOR SEQ ID :201:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 106 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	

	• '	(xi) SEQUENCE DESCRIPTION: SEQ ID :201:	•
		CCTGACACCA ATTTCGCCCA CATGTATGCG GGAAGAGGCC TGAGACTAGA	50
5		AGTCGTTGCC CTGTCCATCT CCCGGCCACA GGCTTCATTC CCAGATTINT	100
		CTTGNT	106
		(2) INFORMATION FOR SEQ ID :202:	
10		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 270 base pairs	
		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	
15		(D) TOPOLOGY: linear	
10		(2, 22, 23, 23, 23, 23, 23, 23, 23, 23, 2	
		(xi) SEQUENCE DESCRIPTION: SEQ ID :202:	
20		CTTTGGAAAA CAAACATTTN TTATTACTGA AATAGCAAAA ATCATTCTAC	50
		ACTCCTCCTA AGCATGTTCA ATTAGCATAC ATTCCAACAA TGCATGAAAA	100
25		AATTNCTAGC CAGAGGCATT TAAGTGATTT CTTCCTAAGT GTTTGCTAAT	150
		TCAATGCCAA GAACTATGAT GTTTATCNTT CTGATGGACA AATCAAGAAA	200
30		CAAAACAGAT ATAATACCAA GGGTAAAGCT GATATGACCC ACAACATTGT	250
		CATTACTCTA ACTGTTAATC	270
		(2) INFORMATION FOR SEQ ID :203:	
35		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 173 base pairs	
		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	•
		(D) TOPOLOGY: linear	
40			

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	(xi) SEQUENCE DESCRIPTION: SEQ ID :203:	
	AACTAAGGCA CATTGCCCTT TTTGACCTTT CTNNNGNACT ATTGAAATCA	50
5	AGCTTATTGA TTAGGTGATA TTTTTATAAC AATTGAAAGG GCAATATCAA	100
	ATAATGACAT ATGAGAATTT TTTATTACAT ATTAAAACTG ATTTTTACTT	. 150
	TACAAAANNG NAATTTGCAA TTA	173
10	(2) INFORMATION FOR SEQ ID :204:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 164 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :204:	
	CTGCTTCACC ATCCTGGCGT CTACCAGCCT GGTGNGGCTG GGTACTGTGN	50
25	ATCGTCTTCC TCAACAAATG CGAGACCTGC CAACCTGCAC TACACCACAT	100
	ATOSTOTICO TONNONATO CONSCIOCO CANCOTOCAC TACACCACAT	100
	CCGCNCAAGA AGAAGAACCT GCTGCTTCAT ACAACACGGG GAGGCCCTGT	150
		-
	CATTAACATT ANTT	164
30		
	(2) INFORMATION FOR SEQ ID :205:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 99 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :205:

	GACCGCCCAN NNNCATCCAA AACTTCTAGG CACAATCTAT ACTGCTGCTG	50
	AAGAAATTGA AGCAGTTGGG GGAAAGGCCT TGCCATTGAN TTTTGATNT	99
5	(2) INFORMATION FOR SEQ ID :206:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 118 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :206:	
	GTACCTTGGG NNNNNNANNG GGAATGAGGT TCTACCACTC TGGAAAATTC	50
20	ATGCCTGTCA NTNTAANTNC AGGTGCCAGT TNNCNNTAGG TCGCCAAAGT	100
	TGGGGTTAGN TGTTCNAA	118
	(2) INFORMATION FOR SEQ ID :207:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 170 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :207:	
35	CACACTANCG ACCAACACTT AAAAGNCTNC TCACACAAGN ATCTTTTTAA	50
	TAAAAATACC TCTTTCNTAA CTCCACTTTA ACTCCCTAAA ACCCATGTCG	100
40	AAGCCCCCAT CCTGGTCAAT AGTACTTGCC CAGTACTTTT AAAACTAGGC	150
	COTATCOATA ATACCOTOAC	170

	(2) INFORMATION FOR SEQ ID :208:	
	·	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 129 base pairs	
• 5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :208:	
	TTCAATGAAA TGCTTGTATA CAATGATATA ACAAAGAAAC CCTAAGACAA	50
15	CGAGAACTTC AACTAAGTGC ACTCATGCAG AATCTCTGCG GGGAGAATTT	100
	TTTCTCGGGG AAGTAACCCT GCCTTTGAA	129
	(2) INFORMATION FOR SEQ ID :209:	
20	(2) INFORMATION FOR SEQ ID :209:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 190 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :209:	
30		
	CTTGGCGTCA TTTTCTGTAC TTCTGACAGT GCCCTCAGAG TCTGCAGGTG	50
	GATCCTTTTT TGCATGGCAT TAATTATATG AGCAGCCTCC TTCTGACAAT	100
35	CCAAATTTTG GCTCCAGAGT CATTTCTGAA NNTCTACACT TANGGNCTTN	150
33		250
	AGCNTGCTCA TTCAAGGTNA AGGGGAGTTT TNAAAAATAT	190
	·	
40	(2) INFORMATION FOR SEQ ID :210:	
-,0	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 129 base pairs	

120

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :210:	
	TCATTGAGTC ATCCTTTTTG CCTGCTGCTG TAAGGTTTTT TTTCTTCTAG	50
10	TAACTGTATG ATCCAGAGCG ACCCAGCAAG GACTCAATCG ATCACCAACT	100
	GATGCAGAAC TGTTTCATAT CTAGAAATG	129
15	(2) INFORMATION FOR SEQ ID :211:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 152 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :211:	
	CTGTAAGGTT TTCTTTCTTC TAAGTAACTG TATGATCCAG AGCGACCCAG	50
	CAAGGAATCA TATCGATCAC CAGCTGATGT AGAACTGGTT TCANATCTAG	100
30	AAATGGAANC NNNGNGTTTN TTCCTTAATG GACCCCCCCN GGGGCNGAAT	150
	GG	152
35	(2) INFORMATION FOR SEQ ID :212:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 186 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

121

	(xi) SEQUENCE DESCRIPTION: SEQ ID :212:	
	CTTAACCCTT TGGAAGGNTT GACTGTGTGA CCCGCAGCAA ATAATTCATG	50
5	TCGAAAGATG AAAACAACTA AGTTCATAAC CCCCTGCCCG CCATTGACCT	100
	CCCTTTNAAA ANCGAGACCA AGACTCCATC ACTGGTTTCG AATTTACATC	150
10	NAACTGCTAA GATTGATACA TTNCAAGTCT GCAAAT	186
	(2) INFORMATION FOR SEQ ID :213:	
	(i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 152 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :213:	
25	CTTAAATGCC TGTTGTGATA TCTTCTTTAA ACCTGGAGAG ATTGAATCAA	50
23	CCTTTCTCTA AAATTCCTTT CCTTTGCCTC CTCCTCTAAC TTTTCCTCCT	100
	TTCNCGCTTT TCCTCAGGCT TTGNTTTTCC TCATGCTTTG CTTCACTCTA	150
30	TT	152
	(2) INFORMATION FOR SEQ ID :214:	
	(i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 290 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

(xi) SEQUENCE DESCRIPTION: SEQ ID :214:

	TCTTCAGGAG AAGGGGCACC ACTGCTTTAA AAAACAATAC TCCNTTATAG	50
	ACTTGAACAT TTGCAGACAT TATGATCTTG CTTCCAACTC CCACCGTATG	100
5	TCCAGCAAAC TCTCGCATGT GGCCACTAGG AGGAATGCGC AAGAATGTTC	150
	ATATTACATA TTTATAACAT TAATAACTGG AAAAAGTGAA ATGCATGTCT	200
••	GTTACAGGAA AATAGGCGAA TAATCAGATA TATATATCTA NNNCCGGGAT	250
10	ATTATTCAAT AGTGGAAATG ATGACTACAG CTATACCTCA	290
	(2) INFORMATION FOR SEQ ID :215:	
15	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 273 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li></ul>	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :215:	
25	GTTTCTTCCA GTACATCCAA GTTTAAAATT ATTAGCGAAA TGGTCCATGT	50
	TTTTTCAATT ACTGCTGACA CGATTCTAAG CTAAGTGAAG GGGAAGATCT	100
30	GAGAGCATGC TGTTTGGACT GTTGATGCAT ATTCATGATG TAACAGGTCC	150
20	TGGGCCTCAC TTTACCCCAT TCGTAAAATG GGGATAATGT CACCTGCCTC	200
	TTACCTACCT CAGAGGGATT TGCGAAGCAA ACTGTTAATC TTCGAAAACG	250
35	ACCATTTACT TTTAGGATAT CAA	273
	(2) INFORMATION FOR SEQ ID :216:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 118 base pairs	

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

## (D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :216:	
	ATCTACGGCT AGGGAGAAAC AATGTTCCTA CATATTATGG GTAGTGAGAA	50
	CATTATCTGT ATAACAGGGA ACTGTGATTA TTTAAAATTA TGCAGAACTT	100
10	ATTTCATCTG TGCTTTAG	118
	(2) INFORMATION FOR SEQ ID :217:	
15	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 197 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li></ul>	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :217:	
25	GAGGCTGGTG GCGAGGGAGT TGTGGAGGAT AACAAGAAGA AAACAAGTCT	50
	ATCACTAATG ACTTATTTTA CTTAGTTTCC ATTCACGAAA CCCTTTTAAA	100
30	TACAAGGCAA CATTTTCACA GCTGAAAAAT TACAACTAAA NGNNNTGATT	150
30	TACCACCAAA AGCAATAGAT GTAGTTATGT ATAATCTATA GATAATA	197
	(2) INFORMATION FOR SEQ ID :218:	
35	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 177 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	

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- ·	(xi) SEQUENCE DESCRIPTION: SEQ ID :218:	
	CTCGCGAGCA CTCGTCCGAG AGGTCCCATA CNNNNNNCC CAAGCCCCTC	50
· 5	AAGGGCCTTT GCCAATCTNG TCATTTTATG CCAAGTCCTC TAAAACGCAC	100
	TCAGGGGTAT CTACATCGCA CTTGTACAGA ATATCAAGAT CTTATCCTCC	. 150
10	TATTTTAGGC TNCNAGGTCA AAATAAA	177
10	(2) INFORMATION FOR SEQ ID :219:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 118 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :219:	
	GAAATGAAAA AGAGAGCATT ATTGGAAGAA TGAAAAATAC ATCTCAGAAA	50
25	GAAACCTANT AGTTCAACAA ATTAAAAGAA AGAAAGAAAA AAAGCAAAAG	100
	TNGGTNTCAG GGCTGGAC	118
	(2) INFORMATION FOR SEQ ID :220:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 233 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :220:	
An		

GAGAGCCCAG CACGTCATCC CCTGATCTGA GTCTACTGAA CACCTGTTTT

125

	ATGGACTACA CTGTCTTTC CTTTGAATCC CCACTTCTCC TGGAACTGTA	100
	CTTGGACCAC CAGGAACATC GTAAGACACA ACCCAATACA CTCACCGCAT	150
5	TCAGACAACT GTCCAGACAC TGCCCTGACA CCACAGGGNC CCCTTTACAN	200
	NGGTTGGNGG AAATATNNTT TAATCTCAGG CCA	233
	(2) INFORMATION FOR SEQ ID :221:	
10	( CROUDING CUADACTEDICTICS.	
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 235 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :221:	
20		
	GCACACAGAT ACCATCCCAC CTTGCTTTNT GACAGGCCAG CCACACAATA	50
	ACCETTICCC TACTCACTAA AGCATCCCTA GGACACCAAC AATGAGGACA	100
25	GGCAGACTTA CCCCCGCCAT CTAGAGAGAA TGTCGTTATT ACCCATAAAA	150
	CTCGACCACC CCCATATNCA CTNTTGGGTA AAAACAAACG CTTAAACCTG	200
	TGAGCCTGCC ATTCCTTTTT ACGTGTTAAT CAATT	235
30	IGNOCOTOCO ATTOCTOTTA OLITA	200
	(2) INFORMATION FOR SEQ ID :222:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 101 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :222:

	GCCAATNNNN NGGCGCGAGG GNNAGAGAGA ATGGCAAACA GGGACCCGGG	50
	CCTTAGGAAT TGANTGAGGA CTTAAATTTC CCCNGAGGGA GAGNAGTGGA	100
. 5	G	101
	(2) INFORMATION FOR SEQ ID :223:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 271 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :223:	
20	ACGGTGACTT TCCATCCCTT GAACCAAGGC ATGTTAGCCT TGGCTCCAGC	50
	ATGTCGTCAC CATTCCAACC AGAAATTGNC ACAAATGCTA CTGGTCGGGT	100
	TGACCAATTT TCTTAATGAA GTGCTGACTT CCTTAACAAT TTNTTATATT	150
25	TNTTCGACTG TAGGGCGCTC ATGAATCCAT TTCGTTAACA CCGACAATTA	200
	ATTGTTTCAC ACCCAGTGTG CAAGCCAGAA GGGCATGCTC TGGGTCTNCC	250
30	CATTCTTGAG ATACCAGCTT C	271
	(2) INFORMATION FOR SEQ ID :224:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 101 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

40

(xi) SEQUENCE. DESCRIPTION: SEQ ID :224:

	AGTATTATTT ACTNGGTCAT CTGGGAACCT TAATGTGATT TATTTTGACA	50
	ATTACTGTGG CACATGTTTA ATCTGCAGCT CCTGGCGACT ACTGTGCTTA	100
5	т	101
	(2) INFORMATION FOR SEQ ID :225:	
10	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 141 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
15		
4	(xi) SEQUENCE DESCRIPTION: SEQ ID :225:	
	TTCATTCCCT CCAGTGCNCG NNCATGCGAC ATATACAGGN NNTGTACCGT	50
20	AGGCGCTANT GTGTGGTACT CTGCCACGNN ANACCNCNNC TCGTCTTGAA	100
	GACCCTGTTA ANTTTGGTGA AAATAACTTT CCANATTTCA A	141
25	(2) INFORMATION FOR SEQ ID :226:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 218 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :226:	
	ATTTTCTTAT ACTCCTCCCA CAGATGAGTT CACAAATACA AAAANTGGTG	50
40	TACATTTATA CTCAAGNACA AATCTCCAAC AGCCAAGTAA TTATAGTTTG	100
40	TTCTGTTATG TGCAAAGTAG ATTATTTCAT ATTTACTTGG TATGGAAAGC	150·

•	AGAGTACAGG CTCAATGGAC AATAATCATT AAACACACAT TATNTTTAAG	200
	AAAANGCTGT TNNAAAAA	218
5	(2) INFORMATION FOR SEQ ID :227:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 209 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :227:	
	GAAAACTITA TTTGTCCACA CCAGGATTAC CGAACAGAAN NACNNGGTGG	50
20	TGAGAAGTTG GTATTNATAG CACCTTATTT ACATGATGGA CTTGAGGAGG	100
20	CAGTTAATCC TATGGTTGTG TATCACAACC TTTTATTAGC AATGCCATCT	150
	TCGTCTTGCC TCCNCCCTAC TTGAATATCC CTTACGGTCA ACANCCCNCG	200
25	GGGTTGGGC	209
	(2) INFORMATION FOR SEQ ID :228:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 179 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(D) TOPOLOGI: Timear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :228:	
40	TTTNNCAANC CAAATGGTTA TTTATTCTAA AACTGGAAGC TACTTTGCCT	50
	AND MEMORICO CONCENTRACE CENTRALINA CAGGGAGGA AAAAAGTTAC	100

	AGATGTAAAC AATGACACAG TTACATTTTT TTTTTAAATG GTAAAACCCC	150
	TTTTTACTGG NCNTTCCAGA ANCTTACAG	179
5	(2) INFORMATION FOR SEQ ID :229:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 184 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
٠	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :229:	
	AGTTTAATCT CANNNNNNA TGTCACAAGT TATTGTAGCA GTGAAACAAT	50
20	GAGGGCATAC ACTATATNGA AAAAAAAACC TCCTCCCTNA TTCTCACGCC	100
	AACCACAGGC TTCTGCCCTG CAAAGATCAC CAATGTCAAT AGTTTGGTAA	150
	TACACCATCA TAAAGGNTCC TAAATTCATC TCTA	184
25	(2) INFORMATION FOR SEQ ID :230:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 140 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :230:	
	GAGACAGATG TANNNAAAGT TCAGAATACA ACAGTTAAGA CTCAGTTTTC	50
40	TTTTTAGGTT TAGAATTTGA GAGCAAGTAT TGNTATGGTG AGCTGTTTTA	100
	GTGCAAACAT TGTTGAGTAT GTTGTCAAAC GTCTAAAAAA	140

	(2) INFORMATION FOR SEQ ID :231:	
5	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 178 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :231:	
	CGGAGACTTG TCCAGAGAGT TGTCTCTTNT NNGTTGGGGG CCGTCCCGCT	50
15	CCTAAGGCAG GAAGATGGTG GCNNNTNNNG ACGAAAAAGT CGCTGGNGNN	100
	NATNAANTNT AGGCTCNAAN TNNTTATGAA AANTGGGAAG TAANTNNTCG	150
	GGGGTAAAAG NAANATNNGA ANATGGAT	178
20	(2) INFORMATION FOR SEQ ID :232:	
25	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 210 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :232:	
	GAGCCAACGC CACNNNNAG NTGAACCACA CTCACGAAAA AAACNCNTAC	50
35	CGTCGTCNTA ATACNNANTC TTCCCATACA AAAATCGTCC NTNTAAATNT	100
	NNTAAACCAA TTCACAGCCC ACAGAACNAA TCAGTAATTT TATANCTTCN	150
	NCGARACCAC ACTTATCCCC ACCTTGGTCT ATTCATNACC CGGATNGAGG	200
40	CCARCCANCC	210

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.

(2) INFORMATION FOR SEQ ID :233:

AAAAAGAAAA GGGTGTGNAG TCCATGGTGT TGTACAGTNT NTAATTAGNC  CANNACGAGA AAANANATNN NNNTNNNAAA NNNTGAATTA TGGGGTNAGG  ACTNTCTNAC NTTCAAACNA NTATTNCACG TAAAAAACAT CACAGTGCGA  AGAAAGNNAN CNCANNTAGA GCANGAAGAC ATCAAAAGCC AGCCGGG  (2) INFORMATION FOR SEQ ID :234:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 169 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID :234:  35 AAACACCAAA NAAANNNNNC NAGCAANAAA GTGGAAGACT AACCAAGATT  5 GTGGACATTG GAATGTTTAC TGTTATTCTG TGTAAGAAAA CAACTNACAA  AAAAGAAAAA TGGNCAACAA AATTGTTTCC CGGCNAGGCT GNAGGAAACC  15			
(A) LENGTH: 247 base pairs  (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear  10  (xi) SEQUENCE DESCRIPTION: SEQ ID :233:  ACTGTGCGAG TAGCTTNAAA ANNNNNNNN NNACTCAGTT TNATTTATAC  5  AAAAAGAAAG GGGTGTGNAG TCCATGGTGT TGTACAGTNT NTAATTAGNC 16  CANNACGAGA AAANANATNN NNNTNNNAAA NNNTGAATTA TGGGGTNAGG 15  ACTNTCTNAC NTTCAAACNA NTATTNCACG TAAAAAACAT CACAGTGCGA 20  AGAAAGNNAN CNCANNTAGA GCANGAAGAC ATCAAAAACCC AGCCGGG  (2) INFORMATION FOR SEQ ID :234:  25  (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 169 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear  30  (xi) SEQUENCE DESCRIPTION: SEQ ID :234:  35  AAACACCAAA NAAANNNNNC NAGCAANAAA GTGGAAGACT AACCAAGATT 55  GTGGACATTG GAATGTTTAC TGTTATTCTG TGTAAGAAAA CAACTNACAA AAAAGAAAAA TGGNCAACAA AATTGTTTCC CGGCNAGGCT GNAGGAAACC 15		(i) SEQUENCE CHARACTERISTICS:	
(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID :233:  ACTGTGCGAG TAGCTTNAAA ANNNNNNNN NNACTCAGTT TNATTTATAC  AAAAAGAAAG GGGTGTGNAG TCCATGGTGT TGTACAGTNT NTAATTAGNC  CANNACGAGA AAANANATNN NNNTNNNAAA NNNTGAATTA TGGGGTNAGG  ACTNTCTNAC NTTCAAACNA NTATTNCACG TAAAAAACAT CACAGTGCGA  AGAAAGNNAN CNCANNTAGA GCANGAAGAC ATCAAAAGCC AGCCGGG  (2) INFORMATION FOR SEQ ID :234:  (A) LENGTH: 169 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID :234:  35  AAACACCAAA NAAANNNNNC NAGCAANAAA GTGGAAGACT AACCAAGATT  GTGGACATTG GAATGTTTAC TGTTATTCTG TGTAAGAAAA CAACTNACAA  AAAAGAAAAA TGGNCAACAA AATTGTTTCC CGGCNAGGCT GNAGGAAACC  15		•	
(C) STRANDEDNESS: double (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID :233:  ACTGTGCGAG TAGCTTNARA ANNNNNNNN NNACTCAGTT TNATTTATAC  5  AAAAAGAAAG GGGTGTGNAG TCCATGGTGT TGTACAGTNT NTAATTAGNC  CANNACGAGA AAANANATNN NNNTNNNAAA NNNTGAATTA TGGGGTNAGG  ACTNTCTNAC NTTCAAACNA NTATTNCACG TAAAAAACAT CACAGTGCGA  AGAAAGNNAN CNCANNTAGA GCANGAAGAC ATCAAAAGCC AGCCGGG  (2) INFORMATION FOR SEQ ID :234:  (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 169 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear  30  (xi) SEQUENCE DESCRIPTION: SEQ ID :234:  35 AAACACCAAA NAAANNNNNC NAGCAANAAA GTGGAAGACT AACCAAGATT 5 GTGGACATTG GAATGTTTAC TGTTATTCTG TGTAAGAAAA CAACTNACAA AAAAGAAAAA TGGNCAACAA AATTGTTTCC CGGCNAGGCT GNAGGAAACC 15	·5		
(D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID :233:  ACTGTGCGAG TAGCTTNAAA ANNNNNNNNN NNACTCAGTT TNATTTATAC  SAAAAGAAAG GGGTGTONAG TCCATGGTGT TGTACAGTNT NTAATTAGNC  CANNACGAGA AAANANATNN NNNTNNNAAA NNNTGAATTA TGGGGTNAGG  ACTNTCTNAG NTTCAAACNA NTATTNCACG TAAAAAACAT CACAGTGCGA  AGAAAGNNAN CNCANNTAGA GCANGAAGAC ATCAAAAGCC AGCCGGG  (2) INFORMATION FOR SEQ ID :234:  (A) LENGTH: 169 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID :234:  35 AAACACCAAA NAAANNNNC NAGCAANAAA GTGGAAGACT AACCAAGATT  GTGGACATTG GAATGTTTAC TGTTATTCTG TGTAAGAAAA CAACTNACAA  AAAAGAAAAA TGGNCAACAA AATTGTTTCC CGGCNAGGCT GNAGGAAACC  15			
(xi) SEQUENCE DESCRIPTION: SEQ ID :233:  ACTGTGCGAG TAGCTTNAAA ANNNNNNNN NNACTCAGTT TNATTTATAC  15  AAAAAGAAAG GGGTGTGNAG TCCATGGTGT TGTACAGTNT NTAATTAGNC  CANNACGAGA AAANANATNN NNNTNNNAAA NNNTGAATTA TGGGGTNAGG  ACTNTCTNAC NTTCAAACNA NTATTNCACG TAAAAAACAT CACAGTGCGA  20  AGAAAGNNAN CNCANNTAGA GCANGAAGAC ATCAAAAGCC AGCCGGG  (2) INFORMATION FOR SEQ ID :234:  25  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 169 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  30  (xi) SEQUENCE DESCRIPTION: SEQ ID :234:  35  AAACACCAAA NAAANNNNNC NAGCAANAAA GTGGAAGACT AACCAAGATT  57  GTGGACATTG GAATGTTTAC TGTTATTCTG TGTAAGAAAA CAACTNACAA  AAAAGAAAAA TGGNCAACAA AATTGTTTCC CGGCNAGGCT GNAGGAAACC  15		• •	
(xi) SEQUENCE DESCRIPTION: SEQ ID :233:  ACTGTGCGAG TAGCTTNAAA ANNNNNNNN NNACTCAGTT TNATTTATAC  15  AAAAAGAAAG GGGTGTGNAG TCCATGGTGT TGTACAGTNT NTAATTAGNC  CANNACGAGA AAANANATNN NNNTNNNAAA NNNTGAATTA TGGGGTNAGG  ACTNTCTNAC NTTCAAACNA NTATTNCACG TAAAAAACAT CACAGTGCGA  20  AGAAAGNNAN CNCANNTAGA GCANGAAGAC ATCAAAAGCC AGCCGGG  (2) INFORMATION FOR SEQ ID :234:  25  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 169 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  30  (xi) SEQUENCE DESCRIPTION: SEQ ID :234:  35  AAACACCAAA NAAANNNNNC NAGCAANAAA GTGGAAGACT AACCAAGATT  57  GTGGACATTG GAATGTTTAC TGTTATTCTG TGTAAGAAAA CAACTNACAA  AAAAGAAAAA TGGNCAACAA AATTGTTTCC CGGCNAGGCT GNAGGAAACC  15		• •	•
(xi) SEQUENCE DESCRIPTION: SEQ ID :233:  ACTGTGCGAG TAGCTTNAAA ANNNNNNNN NNACTCAGTT TNATTTATAC  15  AAAAAGAAAG GGGTGTGNAG TCCATGGTGT TGTACAGTNT NTAATTAGNC  CANNACGAGA AAANANATNN NNNTNNNAAA NNNTGAATTA TGGGGTNAGG  ACTNTCTNAC NTTCAAACNA NTATTNCACG TAAAAAACAT CACAGTGCGA  20  AGAAAGNNAN CNCANNTAGA GCANGAAGAC ATCAAAAGCC AGCCGGG  (2) INFORMATION FOR SEQ ID :234:  25  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 169 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  30  (xi) SEQUENCE DESCRIPTION: SEQ ID :234:  35  AAACACCAAA NAAANNNNNC NAGCAANAAA GTGGAAGACT AACCAAGATT  57  GTGGACATTG GAATGTTTAC TGTTATTCTG TGTAAGAAAA CAACTNACAA  AAAAGAAAAA TGGNCAACAA AATTGTTTCC CGGCNAGGCT GNAGGAAACC  15			
ACTGTGCGAG TAGCTTNAAA ANNNNNNNN NNACTCAGTT TNATTTATAC  15  AAAAAGAAAG GGGTGTGNAG TCCATGGTGT TGTACAGTNT NTAATTAGNC  CANNACGAGA AAANANATNN NNNTNNNAAA NNNTGAATTA TGGGGTNAGG  ACTNTCTNAC NTTCAAACNA NTATTNCACG TAAAAAACAT CACAGTGCGA  20  AGAAAGNNAN CNCANNTAGA GCANGAAGAC ATCAAAAGCC AGCCGGG  (2) INFORMATION FOR SEQ ID :234:  25  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 169 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  30  (xi) SEQUENCE DESCRIPTION: SEQ ID :234:  35  AAACACCAAA NAAANNNNNC NAGCAANAAA GTGGAAGACT AACCAAGATT  GTGGACATTG GAATGTTTAC TGTTATTCTG TGTAAGAAAA CAACTNACAA  AAAAGAAAAA TGGNCAACAA AATTGTTTCC CGGCNAGGCT GNAGGAAACC  15	10		
AAAAAGAAAA GGGTGTGNAG TCCATGGTGT TGTACAGTNT NTAATTAGNC  CANNACGAGA AAANANATNN NNNTNNNAAA NNNTGAATTA TGGGGTNAGG  ACTNTCTNAC NTTCAAACNA NTATTNCACG TAAAAAACAT CACAGTGCGA  AGAAAGNNAN CNCANNTAGA GCANGAAGAC ATCAAAAGCC AGCCGGG  (2) INFORMATION FOR SEQ ID :234:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 169 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID :234:  35 AAACACCAAA NAAANNNNNC NAGCAANAAA GTGGAAGACT AACCAAGATT  5 GTGGACATTG GAATGTTTAC TGTTATTCTG TGTAAGAAAA CAACTNACAA  AAAAGAAAAA TGGNCAACAA AATTGTTTCC CGGCNAGGCT GNAGGAAACC  15		(xi) SEQUENCE DESCRIPTION: SEQ ID :233:	
AAAAAGAAAG GGGTGTGNAG TCCATGGTGT TGTACAGTNT NTAATTAGNC  CANNACGAGA AAANANATNN NNNTNNNAAA NNNTGAATTA TGGGGTNAGG  ACTNTCTNAC NTTCAAACNA NTATTNCACG TAAAAAACAT CACAGTGCGA  AGAAAGNNAN CNCANNTAGA GCANGAAGAC ATCAAAAGCC AGCCGGG  (2) INFORMATION FOR SEQ ID :234:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 169 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID :234:  35 AAACACCAAA NAAANNNNNC NAGCAANAAA GTGGAAGACT AACCAAGATT  5 GTGGACATTG GAATGTTTAC TGTTATTCTG TGTAAGAAAA CAACTNACAA  AAAAGAAAAA TGGNCAACAA AATTGTTTCC CGGCNAGGCT GNAGGAAACC  15			
CANNACGAGA AAANANATNN NNNTNNNAAA NNNTGAATTA TGGGGTNAGG  ACTNTCTNAC NTTCAAACNA NTATTNCACG TAAAAAACAT CACAGTGCGA  20  AGAAAGNNAN CNCANNTAGA GCANGAAGAC ATCAAAAGCC AGCCGGG  (2) INFORMATION FOR SEQ ID :234:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 169 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  30  (xi) SEQUENCE DESCRIPTION: SEQ ID :234:  35  AAACACCAAA NAAANNNNNC NAGCAANAAA GTGGAAGACT AACCAAGATT  56  GTGGACATTG GAATGTTTAC TGTTATTCTG TGTAAGAAAA CAACTNACAA  AAAAGAAAAA TGGNCAACAA AATTGTTTCC CGGCNAGGCT GNAGGAAACC  15		ACTGTGCGAG TAGCTTNAAA ANNNNNNNN NNACTCAGTT TNATTTATAC	50
CANNACGAGA AAANANATNN NNNTNNNAAA NNNTGAATTA TGGGGTNAGG  ACTNTCTNAC NTTCAAACNA NTATTNCACG TAAAAAACAT CACAGTGCGA  20  AGAAAGNNAN CNCANNTAGA GCANGAAGAC ATCAAAAGCC AGCCGGG  (2) INFORMATION FOR SEQ ID :234:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 169 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  30  (xi) SEQUENCE DESCRIPTION: SEQ ID :234:  35  AAACACCAAA NAAANNNNNC NAGCAANAAA GTGGAAGACT AACCAAGATT  56  GTGGACATTG GAATGTTTAC TGTTATTCTG TGTAAGAAAA CAACTNACAA  AAAAGAAAAA TGGNCAACAA AATTGTTTCC CGGCNAGGCT GNAGGAAACC  15			
ACTITICTINAC INTICAMACINA INTATTUCACE TARAMARCAT CACAGTECEA  20  AGARAGINAN CINCANNITAGA GCANGARGAC ATCAMARGCC AGCCEGE  (2) INFORMATION FOR SEQ ID :234:  25  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 169 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  30  (xi) SEQUENCE DESCRIPTION: SEQ ID :234:  35  ARACACCARA NARANNINIC NAGCAMARA GIGGARGACT ARCCARGATT  56  GIGGACATTE GRATETITAC TETTATTCTE TETAAGRARAA CARCINACAA  ARAAGAARAA TEGNCAACAA ARTTETITCC CEGCNAGGCT GNAGGARACC  15	15	AAAAAGAAAG GGGTGTGNAG TCCATGGTGT TGTACAGTNT NTAATTAGNC	100
ACTITICTINAC INTICAMACINA INTATTUCACE TARAMARCAT CACAGTECEA  20  AGARAGINAN CINCANNITAGA GCANGARGAC ATCAMARGCC AGCCEGE  (2) INFORMATION FOR SEQ ID :234:  25  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 169 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  30  (xi) SEQUENCE DESCRIPTION: SEQ ID :234:  35  ARACACCARA NARANNINIC NAGCAMARA GIGGARGACT ARCCARGATT  56  GIGGACATTE GRATETITAC TETTATTCTE TETAAGRARAA CARCINACAA  ARAAGAARAA TEGNCAACAA ARTTETITCC CEGCNAGGCT GNAGGARACC  15			
AGAAAGNNAN CNCANNTAGA GCANGAAGAC ATCAAAAGCC AGCCGGG  (2) INFORMATION FOR SEQ ID :234:  (i) SEQUENCE CHARACTERISTICS:		CANNACGAGA AAANANATNN NNNTNNNAAA NNNTGAATTA TGGGGTNAGG	150
AGAAAGNNAN CNCANNTAGA GCANGAAGAC ATCAAAAGCC AGCCGGG  (2) INFORMATION FOR SEQ ID :234:  (i) SEQUENCE CHARACTERISTICS:		ACTIVITIES NOTED A ACNA NEATTNEACH TAAAAAAAA CAT CACACTCCA	200
AGAAAGNNAN CNCANNTAGA GCANGAAGAC ATCAAAAGCC AGCCGGG  (2) INFORMATION FOR SEQ ID :234:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 169 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  30  (xi) SEQUENCE DESCRIPTION: SEQ ID :234:  35 AAACACCAAA NAAANNNNC NAGCAANAAA GTGGAAGACT AACCAAGATT  5 GTGGACATTG GAATGTTTAC TGTTATTCTG TGTAAGAAAA CAACTNACAA  AAAAGAAAAA TGGNCAACAA AATTGTTTCC CGGCNAGGCT GNAGGAAACC  15	20	ACINICIANO MITORARONA MINIMOROS INARAMONI CACAGIGOGA	200
(2) INFORMATION FOR SEQ ID :234:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 169 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID :234:  35 AAACACCAAA NAAANNNNC NAGCAANAAA GTGGAAGACT AACCAAGATT 5  GTGGACATTG GAATGTTTAC TGTTATTCTG TGTAAGAAAA CAACTNACAA 10  AAAAGAAAAA TGGNCAACAA AATTGTTTCC CGGCNAGGCT GNAGGAAACC 15	20	AGAAAGNNAN CNCANNTAGA GCANGAAGAC ATCAAAAGCC AGCCGGG	247
25 (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 169 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  30  (xi) SEQUENCE DESCRIPTION: SEQ ID :234:  35 AAACACCAAA NAAANNNNC NAGCAANAAA GTGGAAGACT AACCAAGATT 5  GTGGACATTG GAATGTTTAC TGTTATTCTG TGTAAGAAAA CAACTNACAA 10  AAAAGAAAAA TGGNCAACAA AATTGTTTCC CGGCNAGGCT GNAGGAAACC 15			
(A) LENGTH: 169 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  30  (xi) SEQUENCE DESCRIPTION: SEQ ID :234:  35 AAACACCAAA NAAANNNNC NAGCAANAAA GTGGAAGACT AACCAAGATT 5  GTGGACATTG GAATGTTTAC TGTTATTCTG TGTAAGAAAA CAACTNACAA 10  AAAAGAAAAA TGGNCAACAA AATTGTTTCC CGGCNAGGCT GNAGGAAACC 15		(2) INFORMATION FOR SEQ ID :234:	
(A) LENGTH: 169 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  30  (xi) SEQUENCE DESCRIPTION: SEQ ID :234:  35 AAACACCAAA NAAANNNNC NAGCAANAAA GTGGAAGACT AACCAAGATT 5  GTGGACATTG GAATGTTTAC TGTTATTCTG TGTAAGAAAA CAACTNACAA 10  AAAAGAAAAA TGGNCAACAA AATTGTTTCC CGGCNAGGCT GNAGGAAACC 15			
(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear  30  (xi) SEQUENCE DESCRIPTION: SEQ ID :234:  35 AAACACCAAA NAAANNNNC NAGCAANAAA GTGGAAGACT AACCAAGATT 5 GTGGACATTG GAATGTTTAC TGTTATTCTG TGTAAGAAAA CAACTNACAA 10 AAAAGAAAAA TGGNCAACAA AATTGTTTCC CGGCNAGGCT GNAGGAAACC 15	25	(i) SEQUENCE CHARACTERISTICS:	
(C) STRANDEDNESS: double (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID :234:  AAACACCAAA NAAANNNNC NAGCAANAAA GTGGAAGACT AACCAAGATT  GTGGACATTG GAATGTTTAC TGTTATTCTG TGTAAGAAAA CAACTNACAA  AAAAGAAAAA TGGNCAACAA AATTGTTTCC CGGCNAGGCT GNAGGAAACC  15		(A) LENGTH: 169 base pairs	
(D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID :234:  AAACACCAAA NAAANNNNC NAGCAANAAA GTGGAAGACT AACCAAGATT  GTGGACATTG GAATGTTTAC TGTTATTCTG TGTAAGAAAA CAACTNACAA  AAAAGAAAAA TGGNCAACAA AATTGTTTCC CGGCNAGGCT GNAGGAAACC  15		(B) TYPE: nucleic acid	
(xi) SEQUENCE DESCRIPTION: SEQ ID :234:  AAACACCAAA NAAANNNNC NAGCAANAAA GTGGAAGACT AACCAAGATT 5  GTGGACATTG GAATGTTTAC TGTTATTCTG TGTAAGAAAA CAACTNACAA 10  AAAAGAAAAA TGGNCAACAA AATTGTTTCC CGGCNAGGCT GNAGGAAACC 15			
(xi) SEQUENCE DESCRIPTION: SEQ ID :234:  35 AAACACCAAA NAAANNNNC NAGCAANAAA GTGGAAGACT AACCAAGATT 5  GTGGACATTG GAATGTTTAC TGTTATTCTG TGTAAGAAAA CAACTNACAA 10  AAAAGAAAAA TGGNCAACAA AATTGTTTCC CGGCNAGGCT GNAGGAAACC 15		(D) TOPOLOGY: linear	
AAAAGAAAAA TGGNCAACAA AATTGTTTCC CGGCNAGGCT GNAGGAAACC  AAAAGAAAAA TGGNCAACAA AATTGTTTCC CGGCNAGGCT GNAGGAAACC	30		
AAAAGAAAAA TGGNCAACAA AATTGTTTCC CGGCNAGGCT GNAGGAAACC  AAAAGAAAAA TGGNCAACAA AATTGTTTCC CGGCNAGGCT GNAGGAAACC			
AAAAGAAAAA TGGNCAACAA AATTGTTTCC CGGCNAGGCT GNAGGAAACC  AAAAGAAAAA TGGNCAACAA AATTGTTTCC CGGCNAGGCT GNAGGAAACC		(vi) SPOUPNCE DESCRIPTION. SPO ID .234.	
GTGGACATTG GAATGTTTAC TGTTATTCTG TGTAAGAAAA CAACTNACAA 10 AAAAGAAAAA TGGNCAACAA AATTGTTTCC CGGCNAGGCT GNAGGAAACC 15		(XI) SEQUENCE DESCRIPTION. SEQ ID :234.	
GTGGACATTG GAATGTTTAC TGTTATTCTG TGTAAGAAAA CAACTNACAA 10 AAAAGAAAAA TGGNCAACAA AATTGTTTCC CGGCNAGGCT GNAGGAAACC 15	35	AAACACCAAA NAAANNNNNC NAGCAANAAA GTGGAAGACT AACCAAGATT	50
AAAAGAAAAA TGGNCAACAA AATTGTTTCC CGGCNAGGCT GNAGGAAACC 15			
40		GTGGACATTG GAATGTTTAC TGTTATTCTG TGTAAGAAAA CAACTNACAA	100
40			
•		AAAAGAAAAA TGGNCAACAA AATTGTTTCC CGGCNAGGCT GNAGGAAACC	150
NGGGGGAAAN TGCCNGGGC	40	· · · · · · · · · · · · · · · · · · ·	
		NGGGGGAAAN TGCCNGGGC	169

	(2) INFORMATION FOR SEQ ID :235:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 51 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10	TO TO TO THE PERSON NAMED IN THE PERSON NAMED	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :235:	
	GCANCACANA AAGGAGACGN NANAGCAACG CAGAGATAGC CATCCAGATA	50
15	G	51
	(2) INFORMATION FOR SEQ ID :236:	
	(2) INFORMATION FOR SEQ ID .255.	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 101 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
23		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :236:	
	CAAGTGTAAA TGCTTGCACC TCTCTNCCTC CCCGANTGAA CTCTCTGATC	50
30		100
	TCAAACTTTT TTAGGAAAGC CAGATTAAAA GCAGACGTAC CTAAATNCAA	100
	A	101
35	(2) INFORMATION FOR SEQ ID :237:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 156 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

133

(xi) SEQUENCE DESCRIPTION: SEQ ID :237:

	CATTATAAAA CAGCCTAACT TCCCTTATGC CATATGATTG CCTTAAAAAG	50
5	ACCAGATOTO AAGGAAAAGA TOATOAAAGA GCAGAGATOT TGAAGCGGCA	100
	CAGTTTTCCA GCAGTTTTCG TATTTNTTTT TATTTACGAA TGCCATACTC	150
10	TGTTTT	156
	(2) INFORMATION FOR SEQ ID :238:	
	(i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 148 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(with grouping presentation, one to 220.	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :238:	
	GCAGNCTAAT TGTGAATCTA AGAAACTACT CATAGACATC CCACCCTAAT	50
25	GATTTTACCT NNAACNTTTG TCCTTCATCA TAGAACCCTA GCAACATCCA	100
	CCTCCTGTAG CACGAAACGA ATCAAACAAC CCCCTGGATA ACCTCTCA	148
30	(2) INFORMATION FOR SEQ ID :239:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 258 base pairs	
	(B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID :239:	
	GAGTTTTAAC TTAATCACCT CTTTAAAAGA CCTGTCTCCA AATACAGTTA	50

134

	••	AATTTGAGGT A	ATTGAGGGTT	AGGACTTCAA	CATGTGAGTT	TGGGAAGGGA	10	'n
		AGCACAAAAT (	CAGCCCCTAC	CATGGTATAT	TTATCATTGA	TACATTACTA	15	50
5		TCAACTAAGC	ICAAGATTTT	ATTCAGATTT	GACTAGTTTT	TCCACTAAGG	20	)(
		CCCTTTTCT	ITTCTAGGNT	CCCACAGAGG	ATACATTACA	TTTACTTACA	. 25	50
		тсттстст					25	; 8
10		(2) INFORMA	IION FOR SE	Q ID :240:				
		(i) SE	QUENCE CHAP	RACTERISTICS	S:			
		(2	A) LENGTH:	377 base pa	airs			
15		(1	B) TYPE: nu	cleic acid				
		((	C) STRANDED	NESS: doub	le			
		(1	) TOPOLOGY	: linear				
20								
		(xi) Sl	EQUENCE DES	CRIPTION: 5	SEQ ID :240:			
		GAGCATTATT 1	IGATGCAGAA	GTTGAAAAAC	AATAGACTCA	AGAAAGAAAA	5	C
							,	
25		CAAACCAGTG	ATTCCCCTTC	CTCAGATACT	GGGACTAACA	GCTTCACCTG	10	)C
		GTGTTGGAGG (	GGCCACGGAG	CAAGCCAAAG	CTGAAGAACA	CATTTTAAAA	15	C
		CTATGTGCCA A	ATCTTGATGC	ATTTACTATT	AAAACTGTTA	AAGAAAACCT	20	C
30								
		TGATCAACTG A	AAAAACCAAA	TACAGGAGCC	ATGCAAGAAG	TTTGCCATTG	25	0
		CAGNTGCAAC (	CAGNGGAGNT	CCTTTNAAGN	GNAACTTCTN	GNATAATNNC	30	JU
35		********		A MINING COMP :	NONNO S MARA	CNA ONCOCES		٠,
35		AAGGGTNAAC I	MANNTTTULK	ANNNGCCNAA	NCNNGATTTT	GNACNCCCTT	35	Ü
		TNNCATTGGC A	ለ ጥጥእ፤ አ እነጣጣ እ እ	3332CMM			24	. ~
		INNUMITEGE	PTINUNICAN	nnnnull			37	,
		(2) INFORMA	TION POD CE	- מד חי				
		(Z) INFORMA	TION FOR DE	.¥ 10 ;541;				

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 114 base pairs

135
(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :241:	
10	GGNGCACTGN TCCGAGAGCT TTTTTTNCTG AAGAATAGCA TCTTTAATGA	50
10	GTGTNCTAAT CCTTGTCATC TGAAGTTTTG AAATATATTT CCCAGGGTCA	100
	GAACAATACA GAGA	114
15	(2) INFORMATION FOR SEQ ID :242:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 122 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :242:	
	CTCAAAATNC TGTGACAAAT TTNNNNGGTC AAGTTGTTNN CCATTAAAAA	50
30	GTACCTGATT TTCAAAAACC TAATAACCTT AAAACCNCCC CACGNAAAAA	100
50	AAAAAANCNA AAGNGGGCCC CC	122
	(2) INFORMATION FOR SEQ ID :243:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 171 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

	(xi) SEQUENCE DESCRIPTION: SEQ ID :243:	
	GAGAATGGGA AGCCTCATTT TGGGGACAAG AACCTGTACA AGGATTTGTG	50
5	ATGAACTTTT CCAATGGGGA AATTATAGAC ATCTTCAAGC CAGTGCGCAC	100
	NTATGATATG CCTCATGATA TINTIGCATC TGAAGATGGG ACTNIGTACA	150
	TTGGNGATGC TCATCCAAAC C	171
10	(2) INFORMATION FOR SEQ ID :244:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 235 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	•	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :244:	
	AACTTTACTG TCAGATAATA AAATTAGGGC TTTCTCTTAA AGGGCTTCTT	50
25	TAAGAGAAAT ACAGAGTGTT TGGTATNTGA GAGAAAAAAA GTTAAAACAG	100
25	IMAGAGAAAI ACAGAGIGII IGGIAINIGA GAGAAAAAAA GIIAAAACAG	100
	GACTITCAAC ITAATCCAGA CITCCTAACA GIGITTACAT GIGAGGGAAA	150
		-
	CTCCTTTAAG TAATGCGTAG TGTTTTATTT TTACCATCAT TGGNGACAAA	200
30	•	
	AAAAACAAAA ACATAAACAT CTNANGTGAA ATATA	235
	(2) INFORMATION FOR SEQ ID :245:	
35		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 211 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

. •	(xi) SEQUENCE DESCRIPTION: SEQ ID :245:	
	GGCCTAGCCT GCCATACCCT TACGAGCAGG CTCAGTGATT AGACTTTGAG	50
5	TCTAAGTTAA AAACGCCCTG CCCCCTTCTC GCAGGCCACC TACACCGTNN	100
	TTTTATCGAT TTGATAAAAC CACCAGCCTA CTCATCAAGN NGCACCCTGC	150
10	NTNTACNTCT AACCNTAACA TNACNGCGGC CACCTACTCA TGCCCTANTG	200
10	CAGCNCACCC T	211
	(2) INFORMATION FOR SEQ ID :246:	
15	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 194 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
20	(b) Toroboot. Tricul	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :246:	
25	GGCTGAGAAT CCTTGAGCTT ACCATTTGAT ATTTCTATAT TATTTAAGAA	50
	AAGTCAAAAG ATTTTGAAAA CAGCAATAGA AGTAAGATCC TTTAAGCTCT	100
30	ATTTGCAGCC CCTAAGAAAA GTGATGAGGA CACTGTGCAT GCCCATATGT	150
30	GAACATGGTG GTACCTTAGG NATTTCCCTT TNTCNATGAA TATA	194
	(2) INFORMATION FOR SEQ ID :247:	
35	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 249 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
40		

	(xi) SEQUENCE DESCRIPTION: SEQ ID :247:	
	GCCCCCTCAA GGGCATCCTG GGCTACACTG AGCACCAGGT GGTCTCCTCT	50
5	GACTTCAACA GCGACACCCA CTCCTCCACC TGACGCTGGG GCTGGCATTG	100
	CCCTCAACGA CCACTTTGTC AAGCTCATTT CCTGGTATGA CAACGAATTT	150
10	GCTACAGCAA CAGGGTGTGG ACCTCATGGC CCACATGGCC TCCAAGGTAA	200
10	GCCCCTGGAC CACCAGCCCC AGCAAGGCAC AAGAGGAAGG AGAGACCCT	249
	(2) INFORMATION FOR SEQ ID :248:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 248 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :248:	
25	GCCCCCTCAA GGGCATCCTG GGCTACACTG AGCACCAGGT GGTCTCCTCT	50
	GACTTCAACA GCGACACCCA CTCCTCCACC TGACGCTGGG GCTGGCATTG	100
30	CCCTCAACGA CCACTTTGTC AAGCTCATTT CCTGGTATGA CAACGAATTT	150
	GCTACAGCAA CAGGGTGTGG ACCTCATGGC CCACATGGCC TCCAAGGTAA	200
	GCCCCTGGAC CACCAGCCCC AGCAAGGCAC AAGAGGAAGG AGAGACCC	248
35	(2) INFORMATION FOR SEQ ID :249:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 82 base pairs	
	(	
	(B) TYPE: nucleic acid	
40	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :249:	
-	GGAGGGGACC GCAGCATCCA GCCCTCTAAG GCCGGGCAGC GGTCGCGTTG	50
5	GGGCAGAGC CAGCGCAAGC AGGCTCAGTG TA	82
	(2) INFORMATION FOR SEQ ID :250:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 125 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :250:	
20	GGGGCCCTCA GGACATCCAC GTGAGCGTCT GCCCAGCTGC ACTGATATTG	50
	TNTTGCAAAT CCAGATTTGT TGNCATTACT GATGGGCGCG TGAAACCAGN	100
25	GAGAGATGCA CAAGATTTAC AGGCC	125
	(2) INFORMATION FOR SEQ ID :251:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 130 base pairs	
30	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :251:	
	GGCCCAGAGG TCCTTTACTC TTACGGNACA CCTTAGCCAC ATTCACAGGG	50
40	AATGNTCCAG CACTCAGGCT CCTTCCCATN GGTTTTCAAA AGCGCGTTTT	100
	TCTGGGGGAG CGGCCGCCTT TAGTCGACCC	130

• •	(2) INFORMATION FOR SEQ ID :252:	
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 216 base pairs	
. 5	(B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :252:	
	GAGAAGGCTG GAGAAAAACC ATCCACACAT AAACAATNGN ATTTACTCNA	50
15	AAATNAAGTA CAGGTTTCAG GTATTTAAAA TAAATAAAGA AAAATCTCGT	100
	·	
	TTCCTTTGGC ATCTTTAGAA AATAAACTAA GCAATAAAAG AGGTGATTGT	150
	ATANAGACAT GCGTAAGCAA ACATATGGGG AAAACCAGCA ACTTGGTTTT	200
20	AIRMONOAL GOOTHIGGIN. HOLLITOGGO HARROGIGGI HOLLITOGGO	
	ATGNGATAAT ATCAGC	216
	(2) INFORMATION FOR SEQ ID :253:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 249 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :253:	
	(,	
35	GGAGAAGGAG GCTGATTGCG TACATCCAGC AGTTACAATT TTTAAAAATT	50
	ACANTNNNNC NNTTNGATTN TTAATNTANG TAATTTCCTT CCAAAGAAGN	100
		3.5.4
40	TTCACATGTA ATAAGTAGAA ATTCTGTATA GGAAAAAAGC ATTAAAAATA	150
40	TANATACNGC TTCATNCGTT GGGAACCATT AAAAGTAATA TAATNAGCTT	200

•	TTTTCAGAAG GATCTTTTGT AGCAGTGNTT ATGAATGNAC CCGCAAAAT	249
	(2) INFORMATION FOR SEQ ID :254:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 166 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :254:	
15	GACCCCATTC TATATTATNC GTNNNGCGAT TTTTTAGCCA CCCTGAAGTT	50
	ATATTTNTAT ACCNAGGCTT CGAATAATCT CATCNGACTN ACCACCCTNG	100
20	GAAAAAAAGA ACCGTTTGAT ACATAGGNAT GNTNAGCTTG ATATCAATNG	150
	CTCCCTGGGN TTCTTG	166
	(2) INFORMATION FOR SEQ ID :255:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 223 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :255:	
35	CCAGACCAAC CGCCTGCAGG AGGCTCTGAA CCCTCTTCAA GAGCATCTGG	50
	AACAACAGAT GGCTGCGCAC CATCTCTGTG ATCCTGTTCC TCAACAAGCA	100
40	AGATTTGCTC GCTGAGAAAG TCCTTGTGGG AAATCGAAGT TGAGGACTAC	150
	TTTCAGAATT TGCTCGCTAC ACTACTTTGA GGATGCTACT CCCGAGCCCC	200

ø	CTTCTNTTGT NACAGACAGC AGA	223
	(2) INFORMATION FOR SEQ ID :256:	
, S	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 292 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :256:	
15	GGAGAAGAAG GAGCAGGAGG TGATGCTACT GACTCAAGTC AAACAGCTCT	50
	TGATAATAAA GCTTCATTGC TCCATTCAAT GCCTACTCAC TCCTCTCCGC	100
20	TCTCGAGACT ATAATCCATA TAACTATTAA GATAGCATCA GTCCCTTCAA	150
	CAAGTCTGCC CTCAAGGAAG CCATGTTTGA TGATGATGCT GACCAGTTTC	200
	CTGACGATCT TTCCCTAGAT CATTCTGACC TGTTGTAGAG TTGTTGAAGG	250
25	AGCTGTCTGA CCATAATGAG CTGTAGAAGA AAGAAAAATT GC	292
	(2) INFORMATION FOR SEQ ID :257:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 238 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :257:	
	AAGGAGCAGG AGGTGATGCT ACTGACTCAA GTCAAACAGC TCTTGATAAT	50
70	ARAGETTERT TGETECATTE RATGESTRET CRETECTET CGETETEGAG	100

. •	ACTATAATCC ATATAACTAT TAAGATAGCA TCAGTCCCTT CAACAAGTCT	150
	GCCCTCAAGG AAGCCATGTT TGATGATGAT GCTGACCAGT TTCCTGACGA	200
5	TCTTTCCCTA GATCATTCTG ACCTGTTGTA GAGTTGTT	238
	(2) INFORMATION FOR SEQ ID :258:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 137 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :258:	
20	GGAGAGAAAA GTTCCTGAGT GACAGAGAAA AAGAACAAAA AGCTGCAGAA	50
	GGCNTCAGCA GAGGCCACTG CTGGCCCTGA GGCTGCACCA AGTGACGAAG	100
	AACCGGCTCC AAGCATTCGT CACAGCACTA ATTTAAA	137
25	(2) INFORMATION FOR SEQ ID :259:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 241 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :259:	
	GCGCGACTTT TAAGGGATTT GCNGTGATGC CTGTTGACCC AGTGCCTTCC	50
40	TAGCCGGGAA GGGGCTCGGC TGGAGTGNNA AGGCTCAGAA AAATTTCGCG	100
-10	AAGAAAAAA CCTATGAGGT AATAATAGGA TTATTCCGTA TCGAAGGCCT	150

	TTTTGGACAG GTGGGTGCGG TGACCTTGGT ATGTATTTTT CGTGTTACAT	200
	CGCGCCATCA TTGGATATGT TAGTGTGTNG GTTAGTAGGT C	241
5	(2) INFORMATION FOR SEQ ID :260:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 248 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :260:	
	GCGGACTTTT AAGGGATTTG CNGTGATGCC TGTTGACCCA GTGCCTTCCT	50
20	AGCCGGGGAA GGGGCTCGGC TGGAGTGNNA AAGGCTCAGA AAAATTTGCG	100
	AAGAAAAAA CCTATGAGGT AATAATAGGA TTATTCCGTA TCGAAGGCCT	150
	TTTTGGACAG GTGGGGCGGT GACCTTGGTA TGTATTTTTC GTGTTACATC	200
25	GCGCCATATT GGTATATGTT AGTGTGTTGG TTAGTAGGTC TCGTATGA	248
	(2) INFORMATION FOR SEQ ID :261:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 239 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :261:	
	GGATCTTTCA GGTGATGAAA TAGTTCTGTA TCTTGATTTT GGCGAATCTA	50
40	CACANGTGAT GAAGTAACGT GATAAAATGA CATAGACCTG TATGCCTACT	100

	ACAATACAGT ATCAAAACCA GGGATTGATT CCTGGTTCTT TTCCAAATCC	150
	ACTTCCCAAA CTTATGGTAA GGTAATATTA AAAAGGCACC AAAGAGCCCT	200
5	GATCCCTGGA TAAACAGGAT CATTTCAAAG NNGTTTATA	239
	(2) INFORMATION FOR SEQ ID :262:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 143 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
,	(xi) SEQUENCE DESCRIPTION: SEQ ID :262:	
20	GCCGGGTGAT GGCCAGGAAG GTGCCCTCTG TTTTTTGTAA AACAGCCATT	50
20	GGCCTTTGTC ATTGAGTCAC CACCTGCAGG GCTTGGGAGT GAGCGTTGGG	100
	TAGGNTCAGG CCCCCAGAAC CGCCTGGGTA CTCACCGCTA GCA	143
25	(2) INFORMATION FOR SEQ ID :263:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 246 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :263:	
	GGCGCTCAGC CTCCCCAAGG ACAAGCTCCT CCCCCTGTAA TACCTCCTCC	50
	TAACAGCCGG ATATGGATGG CAAGTTACCA AACACAGTGA GCCGGGACTC	100
40	TAAAAAAAA TAGCAATCCA GATAGGCTTC GATTTCCCGT GACACTCTGA	150

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	•	
•	AGACATGAAA GTAGACATCG AAAATGAAAA TANTTATNNA AATGAAATGT	200
	TTGGAACCTT TAGCACAGAT TTGTTTGGGA AGACACGGTC TTTTAG	246
5	(2) INFORMATION FOR SEQ ID :264:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 199 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :264:	
	GGCTCCATTA AGGACCAAAT TNATGCTACC ACTAAACAAA AANNTATAGT	50
20	CTGTGTTAAA TCGTATGCTT TTTAAAGGTA TTTAAAGATT CAACTAGCTT	100
20	TAAAGAGGCT GAGCAGCTCA GGAAGCCTGT AATGTGACAT AACTCTTTGG	150
	ACCTGATCTT GATGTTCTGC TGTTGTNAGT CTTGAAGAGC GTATNTGAT	199
25	(2) INFORMATION FOR SEQ ID :265:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 245 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEO ID :265:	
	, .,	
	GGTTTCAATC GTCCATCCAA GATACAAGAG AACGCATTGC CACTGATGCT	50
40	TGCTGAGCCC CCACAGAACT TAATCGCCCA ATCTCAGTCT GGTACTGGTA	100

AAACAGCTGC CTTCGTGCTG GCCATGCTTA GCCAAGTAGA ACCTGCAAAC

147

	AATATCCCGT GTCTTCTCTN TCCCAACGTA TGAGCTGCCC TCCAAACAGG	200
	AAAAGTGATT GAACAAATGG CAAATNTTAC CCTGAACTGA AGCTG	245
<b>`</b> 5	(2) INFORMATION FOR SEQ ID :266:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 121 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :266:	
	AGGAAAAGAT GGGAATATGT TTCTTTCCTT TGAGAATTCA CAAAANGGGG	50
20	TCAAAAACAA AGCAATGCTG AAAGCGAACA TCCATTTNGC CTGCAATTCA	100
	AGGCGAAAAT CCAAAGGCAT C	121
	(2) INFORMATION FOR SEQ ID :267:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 169 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :267:	
35	GGGTCGCTCT CCCCCCCTCT TTCTTCGGGT TGTGTGCGTC TCCGCTTTCG	50
	TGATGTGAGG AACTCTGGGG TGGGCGACGG GTCCAACTCG CGTTGTCATC	100
40	TCCCAGGTTG GTACACCCC CCCCGTTTC CCCAGCCACA CTCCACGGCC	150

169

AGGGTGGAGG CAGATGTCT

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	(2) INFORMATION FOR SEQ ID :268:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 200 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10	(with applicable propring the contract of the	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :268:	
	TCGCAGGAGA GGAATTACAT GCTCATCCTA GAAGGGGGGG CTGACTGCAG	50
15	GTGTTGCTGG GAAGCCTCTC CAGGCCTGGA GCTGGAGTAC CCGTCCTCAG	100
		•
	CACTGCCAGC AGAAAAAGTT GTGATTCAAG GAAAGCACAT TGAATGCATT	150
	ATAGCAATCC CAGACCTAAG TTCGAAGTTG CTTTGTAACA AGTGCTGCCT	200
20	(2) INFORMATION FOR SEQ ID :269:	
	(2) INFORMATION FOR SEQ ID :269:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 163 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	·	
30		
30	(vi) CENTENCE DESCRIPTION, CENTE - 260.	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :269:	
	AGGGGGGCGC AAGAGAGAAG AACTTCACAC TTCTTTATTG CTCAGCCTAG	50
35	ATAGCAGCAG CTGGGAATAC GTAGGACAAA CAGGACGTCG AACAAATTAC	100
	TCCACTATAT TAATATTCAC TACACCACTT ATTCTTTCT	150
40	CACTAAGTGT AGT	163
40	(2) INFORMATION FOR CRO IN 1220.	
	(2) INFORMATION FOR SEQ ID :270:	

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(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 115 base pairs

	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
· 5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :270:	
10	TCACACTTCT TATTGCTCAG CCTAGATAGC AGCAGCTGGG GAATACGTAG	50
	GACAAACAGG ACGTCGAACA AATTACTCCA CTATATTAAA TTCACTCACA	100
15	CCACTTATTC TTTCT	115
	(2) INFORMATION FOR SEQ ID :271:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 178 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :271:	
30	CCCGAGACCT GCGANAATGG TGCTGTGACG ACGAATAGCC ACGCATTATA	50
30	GGGTNTTNTG TTATGGGGGA CACTCTACTA CGGGATGCGT ATGATGNGGN	100
	NCCATTATNG NAGTGGGCAT TGGGGGGAAA CAGAGCACCT GATGCTTTAC	150
35	TGCAGAAATN CCTATGTGAC TCTTATAA	178
	(2) INFORMATION FOR SEQ ID :272:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 178 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

150

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :272:	
	CCCGAGACCT GCGANAATGG TGCTGTGACG ACGAATAGCC ACGCATTATA	50
10	GGGTNTTNTG TTATGGGGGA CACTCTACTA CGGGATGCGT ATGATGNGGN	100
10	NCCATTATNG NAGTGGGCAT TGGGGGGAAA CAGAGCACCT GATGCTTTAC	150
	TGCAGAAATN CCTATGTGAC TCTTATAA	178
15	(2) INFORMATION FOR SEQ ID :273:	
20 .	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 135 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :273:	
	CTCTAGTAAA AATGTTTGAG GAAACAAAAA TGGGGAAGAA GATCAGAACA	50
30	AAAANATTGT TAACACTGAC CGTCCTCATG CAGGTAGGCT ACTACCAACG	100
30	CTGGTTGTTA CTCCAGGAAA ATCGAGGTGA ACATC	135
	(2) INFORMATION FOR SEQ ID :274:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 231 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :274:	
	TGTCGAGGAG AAGAAACCAC TTGATAACAC CCCGCGACAT CGTGGGGCTG	50
5	CTTGTCACAN GAAAGCACCA TGTTCGCAAT GGATTGCTGC AGGTGCTGCC	100
	GTTGCCTCCT CAGGGTCTGC TGAAAGTCAT CTTCTAGGGT CTGAACGACA	. 150
10	TAACGCAGGA AAAGGACTCG CCCAGGCAGA GTTTGTCCCT CTTCCTTCAT	200
10	GACATAGGTG AGCAGTTTCC AGTCCCACTC C	231
	(2) INFORMATION FOR SEQ ID :275:	
15	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 170 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :275:	
25	TCGCAGGAGA AGAAACCTNG TTGCTCCACA ATGCAACCAC ACTGATTTTC	50
	TCTTTCTCT NNAGTTNTCC TTGTCTGTAA CAGGAATGTC CCTTACTATA	100
30	GCAGGCGGAC ACGGCCATGG GTCAAGCACC CTGCTTCTGG AACTTGNNNG	150
	NCGTNCCCAC CATTGATTGA	170
	(2) INFORMATION FOR SEQ ID :276:	
35	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 315 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	
40		

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	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :276:	
	ATATGAAGGA GGAAATGGCT CTCACCTTCG TGAATACCAA GACCTGCTCA	50
Ė	ATGTTAAGAT GGCCCTTGAC ATGAGATTGC CACCTACAGG AAGCTGCTGG	100
	AAGGCGAGGA GAGCAGGATT TCTCTGCCTC TTCCAAACTT TTNTCTGAAC	150
	CTGAGGGAAA CTAATCTGGA TTCACTCCCT CTGGTTGATA CCCACTCAAA	200
10	AAGGACACTT CTGATTAAGA CGGTTGAAAC TAGAGATGGA CAGGTTATCA	250
	ACGAAACTTC TCAGCATTAC GATGACCTTG AATGAAAATN GTACACACTT	300
15	AGCGTAGCAT ATTNA	315
	(2) INFORMATION FOR SEQ ID :277:	
	(1) CTONENCE CUIDI CERRITOR	
20	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 209 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(b) TOPOLOGI: Timear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :277:	
20	ACGITCIGCG CCTTCCTAGG AGAGTCTTAC AGTGTTGAGA TTTCACAAGC	50
30	AATGCGAGTG TAAAATACCA GCTCTACAAG AAGCTAGGCT CTGTGACGGC	100
	ATAGTTTTCA GTAGCTTTAT CACAATGAAA CGAGAATTAT ATGACATGGT	150
35	AGCAGAAATA GGCCCTTTCG TGNGCTGTTC TATTTNCTCG GATNGTAGAT	200
	ATAGTAATC	209

(2) INFORMATION FOR SEQ ID :278:

40

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 107 base pairs

153

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :278:	
10	AAGACATCCT AAGCTATGTT GAGGAGGGAG AAGATCTGAG ACTCAAGTTC	50
10	TGCTGTTAAC CATGAGGTGA TTTAGTAGCT AAGTACGCCT TAGCCTTTTA	100
	GAGTCTT	107
15	(2) INFORMATION FOR SEQ ID :279:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 276 base pairs	
20	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :279:	
	ATGAAGAGAA AACCATCCTC CCATATGAAA ATATTTGCAG TAGGAGAACA	50
30	CAGTGCAATA GGCTCCAAAA ATGGCTTTTA AGACCTTTGG NGGGGCAGTT	100
	ACTACTGCTT TAAAAGCCAG GTTAAAGTAT ACTCTAAGCA AAGATGACCG	150
	TAGAGCAGCT AGCTTCCTTT TCTATAANNA TAGGGAAAGC TCTCTCCATC	200
35	GTCCATCAAA TCAGCTCTAG AAGGTTTTTC TTTCCCCNCT ATAAGTGCAC	250
	AAAGGGGAAA CACTGATTTC AAGCTT	276
<b>1</b> 0	(2) INFORMATION FOR SEQ ID :280:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 185 base pairs	

154

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
. 2		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :280:	
10	AGGAACAGGA TAGGTGTATG CATACTACGG CTAAGGAGAA ACAAGTCCTA	50
10	CATACCAGGG TAGTGAGAAC ATTACCGCAT AACAGGGAAC TGTGATTATT	100
	TAAAAAACGC AGAACTTATT TTATCCGTGC TTTAGAAATA ACTGTATACA	150
15	GTGTTATAAG TTGAAAAGAA CTCAAAACAA CCAAT	185
	(2) INFORMATION FOR SEQ ID :281:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 186 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :281:	
30	AGGAACAGGA TAGGTGTATG CATACTACGG CTAAGGAGAA ACAAGTCCTA	50
	CATACCAGGG TAGTGAGAAC ATTACCGCAT AACAGGGAAC TGTGATTATT	100
	TAAAAAACGC AGAACTTATT TTATCCGTGC TTTAGAAATA ACTGTATACA	150
<b>3</b> 5	GTGTTATAAG TTGAAAAGAA CTCAAAACAA CCAATA	186
	(2) INFORMATION FOR SEQ ID :282:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 198 base pairs	
	(B) TYPE; nucleic acid	
	(C) STRANDEDNESS: double	

155

## (D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :282:	
	TGTGGGCTCA GTAATGTCCC CGCTGATGAC AATTTCGAGA GTCCATGTTC	50
	TATAGAAACC TTGAGGTCGG CCAGCCGTGT CTTGGCCAAT GAGATGTAGT	100
10	TGTGAGGAGG GGGCGTACTT GGGGACCAGG GGTGGGTGGA GATGTGCCCT	150
	GTAGGCACAG GGAGACTCAA AAGCACGAGT TNTGAAAGCG TAAATGGG	198
15	(2) INFORMATION FOR SEQ ID :283:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 222 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :283:	
	AGAAAAGGT GAAGCGAAGC CCAAGGACAC CATGCTAAGG GCAAAAGTAA	50
	GAGACAGTCT CAGAACTGAG AGAATCGTGT CTTCTGCTTT TTGAAGTAGA	100
30	CTGTCACACT CAGGCAGCCT GTCAATGCTG AATGTTAGGA CTTCTGTCTC	150
	CGCTGGAGAC ACGCCTGGGC AAGTCAGCGT TTAGTGTTTG ACAGCTTTCT	200
35	CAGCTCCCTG ACTCCGTTTA CC	222
-	(2) INFORMATION FOR SEQ ID :284:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 162 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(C) SIMMUDUMESS: GOMDIE	

40

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(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :284:	
	ATGGATCAAA CTACCTCTAT AATGAAGACT GTTCTCAAAA ACGCGAGGNA	50
	ATGTGNGACG ACACTGACCT ATCAGACAAG AGGGCATGCC CCCCTGGCCA	100
10	CCTTTGNCGC TGTTTNTGCA ACGTTCGCAG TGNTACTCTG CGTGAACCGG	150
	TAGACTGCTT GG	162
15	(2) INFORMATION FOR SEQ ID :285:	
20	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 67 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :285:	50
	GGATÇCANGC AAAGCCCACT CCTCCAGGGT GAAGTTTTTC TCCCGCGACA	50
30	GACAGCAGAC TCGAGCC	67
	(2) INFORMATION FOR SEQ ID :286:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 153 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID :286:

	GGTCGGATCA GGTCACCCGG CAGCAGCAGC TCTCGAGAGC TGAGGCACAA	50
	GGCAGGGGCC CGGCTGTACA CCTGCAGGAC CCAGGAGAGC CTGTTGCAGT	100
5	TCTTGTCCGA AGCGCCGAGA TAGCCACTCA GTGTCCCTGC AGCAGGAGCA	150
	GAA	153
	(2) INFORMATION FOR SEQ ID :287:	
10	A CHOURNOR GUARAGERICATOS.	
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 293 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
1-2	(5) 101010011 1110111	
	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :287:	
20		
	TACTACGGCT AAGGAGAAAC AATGTTCCTA CATATCACGG GTAGTGAGAA	50
	CATATCTGCA TAACAGGGAA CTGTGATATT TAAAAACAGC AGAACTTATT	100
		150
25	CCATCGTGCT TTAGAAATAA CTGTATACAG TGTTATAAGT TGAAAAGAAC	150
	TCANANTANC TGATATANAT ACATCTATGT ATTAGANTTT ANANANGCTG	200
	TCAAAATAAC TGATATAAAT ACATCTATGT ATTAGAATTT AAAAAAGCTG	200
	CTTTCTGTGA AGTCAATCAG CTATATTAAA AATGACACAA ATCCAAAACC	250
30	CITICISION ASIGNATURA CIRITINAL MITORICALI MICOLALIACO	200
30	GATGCATGCC ATATANAAGG GACATTGNAA GTCCGCTCGC TGC	293
	(2) INFORMATION FOR SEQ ID::288:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 114 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

	••	(xi) SEQUENCE DESCRIPTION: SEQ ID :288:	
		AGGGTAAATG TACGTTGTTG AGTCACAGGC CTGCCAGACC TCTACTACCT	50
5		CATTGTCCCC TCCGGTGACC AGTTCTGCCG TCACTGTCAG GAGAATGCCC	100
		GTGTTGAATC ACTG	114
10		(2) INFORMATION FOR SEQ ID :289:	
10		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 290 base pairs	
		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	
15		(D) TOPOLOGY: linear	
		. ,	
		(xi) SEQUENCE DESCRIPTION: SEQ ID :289:	
20			
		ATGAACCAGT GCCCGAGGTA CCCGGGTGTG GACCAGAGAA GTTTGCTGGA	50
		AND COMMON CONTRACTOR OF COMMON ON CONTRACTOR OF COMMON OF	100
		AAGGACGTTG CCAGGACTTA CACGTTTACA GATCCAGCAA CTGCTCTNCC	100
25		CAGTGCCACA ACCATGGGGC GCCAACCACA AGCAGGAGTG CCACTGCCAC	150
23		Cholocolor hours and control hours and control of	
		GCGGGCTGGG TCCCACCCNA CTGCGCGAAG CTGCTGACTG AGGNGCACGC	200
		AGCGTCCGGG AGCCTCCCTG TCCTTGTGTG GGGTATGGNG CTCTGGCGTT	250
30			
		GNGCTGGTTA CCCTGTAGGA GTTANTGNCT ACCGGAAGCT	290
		(2) INFORMATION FOR SEQ ID :290:	
		A CONTRACT CONTRACTOR OF THE C	
35		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 179 base pairs (B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
40		(2) 2222221 221222	

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	(xi) SEQUENCE DESCRIPTION: SEQ ID :290:	
	AACCGCTCTC CACACCGCTC CCACGAGCTC CAAGCTTAAA CGTCCAGATN	50
5	NACTITGTTG CTTTGCTGAT TTTAACAGCT TGATTCTAAG CNCTTACTAG	100
	TATCATNTGT GGCAGGACTT GNTCCATATC AGTGTTACTT TTGCTACTGT	. 150
	TTTGTAGAAC GATGTACATG AATGAGCCT	179
10	(2) INFORMATION FOR SEQ ID :291:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 199 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :291:	
	TCTTTCATTT TGNCTGCCAA TCATTGTCAG AAATTTAGGG AAGTCAATTG	50
25	TGCCATTACC ATCGGCATCT ACTTATTAAT TATGTCCTGT AACTCTGCTT	100
	CTGTGGGATT CTGCCCAAGA GATCTCATTA CAGTTCCCAA TTCTTTGTTG	150
	TTATAGTACC ATCACCATTT CGTTAAATAG TGAAAGAGCT TTTTGAATC	199
30	(2) INFORMATION FOR SEQ ID :292:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 177 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		•
40	•	

(xi) SEQUENCE DESCRIPTION: SEQ ID :292:

	GGAAGACCAT TCTGATCATC CTCACTGACG CCAC GGCAA GAGGGTGGTT	50
	TTCCTGAAGC AGCTGGCTGT GGCTTATACT CGTGACTGGA CCTCTGGNCT	100
5	CAATTGAGTT CCTCAACGAA GACCACCCA GAAATTGTCA TTGCCACCTC	150
	AACCGAANNG ATATTACAAT GTAAAAA	177
	(2) INFORMATION FOR SEQ ID :293:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 295 base pairs	
٠.	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :293:	
20	ATTGGTTTTC CTCATCCACT GAGAATGCTG CTGGTTACTG CAAACGTTCA	50
	CCAACCANAG CTTTGGTCCA TACAGCTTTC TTCTAGATTN GGAGACTCTC	100
25	AAGGACAGCA GGNGCTTTAA AATCCCTGGA CTGTGTTGAG AGGGCTTCTT	150
	TAGGCTTTTC ATGATGTGAA TAGCCAGTCA TGAACTTTGN GTCTGTTTCT	200
30	TTTAGGCTCT TTTTGCAGCA GCAGAGCCAT GCTATNGAAG GAGTGAGAAC	250
	CTATGCGAGN GACCONGTGN TTGNACTTGC CAGGGAGCTT GGCGT	295
	(2) INFORMATION FOR SEQ ID :294:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 78 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :294:	
	AATGATCCTT TTTTCGCTCT TACCTATAGT ACAAGTCCAT GATACTACTG	50
·5	CATATTTTAC CATTTTGNAA ACTGTGAG	78
	(2) INFORMATION FOR SEQ ID :295:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 163 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :295:	
••	ATTCTGTACC TGTTCTGAAC CTCGCCATAA GGGACTTGCA GCTTCGATTT	50
20	GCTAACCTGA AATTCTGCTG CTGCCATGGA ACAAGCCTGG GCTAGCTTGG	100
	GGGAGGAGGA GAGACCATGT GGAGTAGAGC CAAGCTCTGG ACATTTGAGA	150
25	GAGCCCGGTA ATA	163
	(2) INFORMATION FOR SEQ ID :296:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 189 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :296:	
	AGCTTAGAGC GGAACGGGTT CCACGTGCGG TACTCCTGCT TCACGCCGCC	50
40	CTCGGTCACC GTGACGCGCC TCTCGCCGTA CACAGACTGG CCCGGCACCA	100

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	TGTTAGCGTG ACCAGCGCGT CCTCCGCCCC GCGTNAGATG AAGAGGCCCT	150
	CGTGCCGGTG CGCTCCACCG ACACCACCAT GGCCCCTTC	189
5	(2) INFORMATION FOR SEQ ID :297:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 199 base pairs	**
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :297:	
	GGAAACCAGC CCCTCACATC CTCCCTGAAC TTCCTGTCCC CACTCACACA	50
20	AGTGGTCCGG TGTCACCCTG CAGTTGGGTA TAGTCATAGG TACCATTGAT	100
	GACGCCTTCT ACCTCGGCCA TGTAGGCCTT CCAGTCAACC TCTGTGTCTG	150
	GAAGAAGACA AGATGATCTG GTTACTTTTG AGTCTAGAAC TTGTCTGCC	199
25	(2) INFORMATION FOR SEQ ID :298:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 181 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :298:	
	AAAAGATGAT AAATCCACCC TCNTGCTCTT AAAATCCCAT AAACGNTAGG	50
40	CTCTGGAGAA ACAAGTTGTT CTGTCGAGCC CTTGCCATCA ACACACTAAG	100

CAATCATAGT CCCCCAGAGC ACNAGATACT GCTAATGACC ATTANATNTT

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GTATCATCAT GCTGCCTCCT GCATTTGAAT T

	GTATCATCAT GCTGCCTCCT GCATTTGAAT T	181
	(2) INFORMATION FOR SEQ ID :299:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 314 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(vi) SPOUPNOR DECODED TO TO TO TO	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :299:	
15	AACATTGTTT ATTCATCCAG CAGTGTTGCT CAGCTCCTAC CTCTGTGCCA	50
	GGGCAGCATT TTCATATCCA AGATCAATTC CCTTTTTAGC ACAGCCTGGG	100
20	GAGGGGGTCA TTGTTCTCCT CGTCCATCAG GGATCTCAGA GGCTCAGAGA	150
	CTGCAAGCTG CTTGCCCAAG TCACACAGCT AGTGAAGACC AGAGCAGTTT	200
	CATCTGGTTG TGACTCTAGC TCAGTGCTCT TCCACTACTT ATATNCGCCT	250
25	TGGTGCCACC AAAAGTGCTC CCCAAAAGGA AGGAGAATGG GATTTTTTCC	300
	GAGGÇATGTA CATT	314
30	(2) INFORMATION FOR SEQ ID :300:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 168 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :300:	
0		
	AAGAGTCCTG AAGGCATATC CAAGCCTGTT GTTCCTGCAG ACCTCATTAC	50

• •	CACGCCARCA GAGAAGGCTG GACTGCTGCC CACATGCTGC TTCCAAAGGT	100
٠	TTTAAGAACT GCCTAGAAAT CTCGTGTAGG CACGAAGGGC TTGAGCCAGA	150
5	AAGGAGAGA AAGTGCAA	168
	(2) INFORMATION FOR SEQ ID :301:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 142 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :301:	
20	ACCCCACATG CCCAGATGTC CACGNGCTTG CNATACGCCT CTTTGCAAAG	50
20	GACCTCAGGG GACAGGTACC TGGTGTGCCA GCGAAACCAA ACCATGCCTG	100
	CTGGTTCCCC TGACCTCGAT AGCTAGGCCA AGTTTGCCAG CT	142
25	(2) INFORMATION FOR SEQ ID :302:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 197 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :302:	
	. AGAATTCGTA ACTCATCCTA GAGTGGGCAC ATTTTAGACA TAGCAGGCGT	50
	GATGACCAAC AAAGACTGAA GTTCCCTATC TACGGAAAGG CATGACTGGG	. 100
40		150

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	TGCTTAGTTC AGATACTCAA AAATGTCTTC ACTCTGTCTT AAATTGG	197
•	(2) INFORMATION FOR SEQ ID :303:	
5	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 236 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :303:	
15	AGAATTGCAA CTCATCCTAA GTGGGCACAT TTAGACATAG CAGGCATGAT	50
	GACCAACAAA GATGAAGTTC CCTATCTACG AAAAGGCATG ACTGGGAGGC	100
20	CCACAAGACT TTCATCGAGT TCTTACTTCT TTCAATCAAG ACAATGCTTA	150
20	TTCAGATACT CAAAAACGTT TCACTCTGTC TTAAATGAAC AATTGAATTT	200
	AAAAGTTTTT GAATAAATGA TGAAAATTTT TTAACT	236
25	(2) INFORMATION FOR SEQ ID :304:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 220 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :304:	
	ATGTCATTCT CCTCATCCTC CGCATCTCCA CTGTCGTGCA CAAGGACCAC	50
40	CATGTTTCCT TTAGTTCCCA GCACACGGGG CTCTGCAGTA GTGAATGAAG	100
••	TCTAGCACAG CCACCGCCCC CATGCCCAGG CTCAGGAGCA CACTGAGGTC	150

	GTCCACCAC ACACCGGGTA CGTCCACCGA GCCTCTCCAC TGCTCTGGCT	200
	TTAGGCCTCC CGTACAAACT	220
5	(2) INFORMATION FOR SEQ ID :305:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 145 base pairs	•
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :305:	
	AGAAGAAAGG ACAÇCATTAC CATCCATATT GACATCGCAT TTCCATAGAA	50
20	ATGCCAAAGA AAGAAGGTCC TGGGGTTTTT TATAGAAGCT CAAAAAGNTC	100
	AACCTTCGAT GCTATCCCCC AGCCCAATAC AAAATCAGAA AAAGC	145
	(2) INFORMATION FOR SEQ ID :306:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 120 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :306:	
35	AGTCAAGGCA TTATGGTTTT TAATCTGAAA CTTAGAGAAC CCTTTAATAT	50
	TNGCTTTTAC TGGCGTACAT ATGAGTGGAA TATAAACTGT ACACACNNNG	100
40	NGNTGATATA AACAGATNNA	120
	(2) INFORMATION FOR SEQ ID :307:	

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(A) LENGTH: 120 base pairs

(i) SEQUENCE CHARACTERISTICS:

	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :307:	
10	(XI) Bigoiner Bischillion. Big ID 1867.	
	AGTCAAGGCA TTATGGTTTT TAATCTGAAA CTTAGAGAAC CCTTTAATAT	50
	TNGCTTTTAC TGGCGTACAT ATGAGTGGAA TATAAACTGT ACACACNNNG	100
15	NGNTGATATA AACAGATNNA	120
	(2) INFORMATION FOR SEQ ID :308:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 247 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :308:	
20	ACTGCACCCA CCCCAAGGCC ATGGCAGGGT ATGGAGATGT CATTTATCAT	50
30	AAGATGGACA GATAAGCTGG ACCAATAATT AAGATTCCAG CAGAGGGTGA	100
35	GGACACCCAG ATGCGCCAGG ACTGTAGGAA ATCACAATGA TGGCAACGTC	150
	TTGCCTTCCT GGGGACAGGG AGCCCTATTC AAANANAGTC ACATCTGAGG	200
	AGCCGGGGGT TATAACATCA AGTCTGTCCT TGACCTCACA AAGCCAG	247
	(2) INFORMATION FOR SEQ ID :309:	
40	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 107 base pairs	
	• • • • • • • • • • • • • • • • • • •	

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(B) TYPE: nucleic acid

(D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID :309:  AGGTAAGGTT GTCACGTGGA ACAACTGATA AAGGTCAGCT ATATATGTAG 50  AGCTATATAT GTGAGTCACA AGGTGTGGA CATACGTGTA TACGTATAAT 100  ATGCGTT 107  (2) INFORMATION FOR SEQ ID :310:  (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 114 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear  25 (xi) SEQUENCE DESCRIPTION: SEQ ID :310:  GGAAGACCTC GCTGGACATC CTGCAGGGCC ACATCGTGGC TCTGCTTGTG 50  ATTCTGGGGT CCACCCTCTC CAGTCAAGAG AACCCCCGTC GGGTTTAATG 100  TATCAGGAAA GAGA 114  (2) INFORMATION FOR SEQ ID :311:  (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 237 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		(C) STRANDEDNESS: double	
(xi) SEQUENCE DESCRIPTION: SEQ ID :309:  AGGTAAGGTT GTCACGTGGA ACAACTGATA AAGGTCAGCT ATATATGTAG 50  AGCTATATAT GTGAGTCACA AGGTGTGTGA CATACGTGTA TACGTATAAT 100  ATGCGTT 107  (2) INFORMATION FOR SEQ ID :310:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 114 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  25 (xi) SEQUENCE DESCRIPTION: SEQ ID :310:  GGAAGACCTC GCTGGACATC CTGCAGGGCC ACATGGTGGC TCTGCTTGTG 50  ATTCTGGGGT CCACCCTCTC CAGTCAAGAG AACCCCCGTC GGGTTTAATG 100  TATCAGGAAA GAGA 114  (2) INFORMATION FOR SEQ ID :311:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 237 base pairs  (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID :309:  AGGTAAGGTT GTCACGTGGA ACAACTGATA AAGGTCAGCT ATATATGTAG 50  AGCTATATAT GTGAGTCACA AGGTGTGTGA CATACGTGTA TACGTATAAT 100  ATGCGTT 107  (2) INFORMATION FOR SEQ ID :310:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 114 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  25 (xi) SEQUENCE DESCRIPTION: SEQ ID :310:  GGAAGACCTC GCTGGACATC CTGCAGGGCC ACATGGTGGC TCTGCTTGTG 50  ATTCTGGGGT CCACCCTCTC CAGTCAAGAG AACCCCCGTC GGGTTTAATG 100  TATCAGGAAA GAGA 114  (2) INFORMATION FOR SEQ ID :311:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 237 base pairs  (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear			
AGGTAAGGTT GTCACGTGGA ACAACTGATA AAGGTCAGGT ATATATGTAG  AGCTATATAT GTGAGTCACA AGGTGTGTGA CATACGTGTA TACGTATAAT  100  ATGCGTT  107  15 (2) INFORMATION FOR SEQ ID :310:  (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 114 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear  25 (xi) SEQUENCE DESCRIPTION: SEQ ID :310:  GGAAGACCTC GCTGGACATC CTGCAGGGCC ACATGGTGGC TCTGCTTGTG  30 ATTCTGGGGT CCACCCTCTC CAGTCAAGAG AACCCCCGTC GGGTTTAATG 30  TATCAGGAAA GAGA  114  (2) INFORMATION FOR SEQ ID :311:  (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 237 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	5		
AGGTAAGGTT GTCACGTGGA ACAACTGATA AAGGTCAGGT ATATATGTAG  AGCTATATAT GTGAGTCACA AGGTGTGTGA CATACGTGTA TACGTATAAT  100  ATGCGTT  107  15 (2) INFORMATION FOR SEQ ID :310:  (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 114 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear  25 (xi) SEQUENCE DESCRIPTION: SEQ ID :310:  GGAAGACCTC GCTGGACATC CTGCAGGGCC ACATGGTGGC TCTGCTTGTG  30 ATTCTGGGGT CCACCCTCTC CAGTCAAGAG AACCCCCGTC GGGTTTAATG 30  TATCAGGAAA GAGA  114  (2) INFORMATION FOR SEQ ID :311:  (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 237 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear			
AGCTATATAT GTGAGTCACA AGGTGTGTGA CATACGTGTA TACGTATAAT  100  ATGCGTT  107  15 (2) INFORMATION FOR SEQ ID :310:  (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 114 base pairs (B) TYPE: nucleic acid (C) STRANDEDMESS: double (D) TOPOLOGY: linear  25 (xi) SEQUENCE DESCRIPTION: SEQ ID :310:  GGAAGACCTC GCTGGACATC CTGCAGGGCC ACATGGTGGC TCTGCTTGTG  ATTCTGGGGT CCACCCTCTC CAGTCAAGAG AACCCCCGTC GGGTTTAATG  100  TATCAGGAAA GAGA  114  (2) INFORMATION FOR SEQ ID :311:  (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 237 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		(xi) SEQUENCE DESCRIPTION: SEQ ID :309:	
AGCTATATAT GTGAGTCACA AGGTGTGTGA CATACGTGTA TACGTATAAT  100  ATGCGTT  107  15 (2) INFORMATION FOR SEQ ID :310:  (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 114 base pairs (B) TYPE: nucleic acid (C) STRANDEDMESS: double (D) TOPOLOGY: linear  25 (xi) SEQUENCE DESCRIPTION: SEQ ID :310:  GGAAGACCTC GCTGGACATC CTGCAGGGCC ACATGGTGGC TCTGCTTGTG  ATTCTGGGGT CCACCCTCTC CAGTCAAGAG AACCCCCGTC GGGTTTAATG  100  TATCAGGAAA GAGA  114  (2) INFORMATION FOR SEQ ID :311:  (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 237 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear			
ACCTATATAT GTGAGTCACA AGGTGTGTGA CATACGTGTA TACGTATAAT 100  ATGCGTT 107  15 (2) INFORMATION FOR SEQ ID :310:  (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 114 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear  25 (xi) SEQUENCE DESCRIPTION: SEQ ID :310:  GGAAGACCTC GCTGGACATC CTGCAGGGCC ACATGGTGGC TCTGCTTGTG 50  ATTCTGGGGT CCACCCTCTC CAGTCAAGAG AACCCCCGTC GGGTTTAATG 100  30 TATCAGGAAA GAGA 114  (2) INFORMATION FOR SEQ ID :311:  35 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 237 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		AGGTAAGGTT GTCACGTGGA ACAACTGATA AAGGTCAGCT ATATATGTAG	50
ATGCGTT  (2) INFORMATION FOR SEQ ID :310:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 114 base pairs  (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID :310:  GGAAGACCTC GCTGGACATC CTGCAGGGCC ACATGGTGGC TCTGCTTGTG  ATTCTGGGGT CCACCCTCTC CAGTCAAGAG AACCCCCGTC GGGTTTAATG  ATCCAGGAAA GAGA  114  (2) INFORMATION FOR SEQ ID :311:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 237 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	10		
(2) INFORMATION FOR SEQ ID :310:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 114 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  25  (xi) SEQUENCE DESCRIPTION: SEQ ID :310:  GGAAGACCTC GCTGGACATC CTGCAGGGCC ACATGGTGGC TCTGCTTGTG  ATTCTGGGGT CCACCCTCTC CAGTCAAGAG AACCCCCGTC GGGTTTAATG  100  TATCAGGAAA GAGA  114  (2) INFORMATION FOR SEQ ID :311:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 237 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear		AGCTATATAT GTGAGTCACA AGGTGTGTGA CATACGTGTA TACGTATAAT	100
(2) INFORMATION FOR SEQ ID :310:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 114 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  25  (xi) SEQUENCE DESCRIPTION: SEQ ID :310:  GGAAGACCTC GCTGGACATC CTGCAGGGCC ACATGGTGGC TCTGCTTGTG  ATTCTGGGGT CCACCCTCTC CAGTCAAGAG AACCCCCGTC GGGTTTAATG  100  TATCAGGAAA GAGA  114  (2) INFORMATION FOR SEQ ID :311:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 237 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear			107
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 114 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  25  (xi) SEQUENCE DESCRIPTION: SEQ ID :310:  GGAAGACCTC GCTGGACATC CTGCAGGGCC ACATGGTGGC TCTGCTTGTG  ATTCTGGGGT CCACCCTCTC CAGTCAAGAG AACCCCCGTC GGGTTTAATG  100  TATCAGGAAA GAGA  114  (2) INFORMATION FOR SEQ ID :311:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 237 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear		ATGCGTT	107
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 114 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  25  (xi) SEQUENCE DESCRIPTION: SEQ ID :310:  GGAAGACCTC GCTGGACATC CTGCAGGGCC ACATGGTGGC TCTGCTTGTG  ATTCTGGGGT CCACCCTCTC CAGTCAAGAG AACCCCCGTC GGGTTTAATG  100  TATCAGGAAA GAGA  114  (2) INFORMATION FOR SEQ ID :311:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 237 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear			
(A) LENGTH: 114 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  25  (xi) SEQUENCE DESCRIPTION: SEQ ID :310:  GGAAGACCTC GCTGGACATC CTGCAGGGCC ACATGGTGGC TCTGCTTGTG  ATTCTGGGGT CCACCCTCTC CAGTCAAGAG AACCCCCGTC GGGTTTAATG  100  TATCAGGAAA GAGA  114  (2) INFORMATION FOR SEQ ID :311:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 237 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	15	(2) INFORMATION FOR SEQ ID :310:	
(A) LENGTH: 114 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  25  (xi) SEQUENCE DESCRIPTION: SEQ ID :310:  GGAAGACCTC GCTGGACATC CTGCAGGGCC ACATGGTGGC TCTGCTTGTG  ATTCTGGGGT CCACCCTCTC CAGTCAAGAG AACCCCCGTC GGGTTTAATG  100  TATCAGGAAA GAGA  114  (2) INFORMATION FOR SEQ ID :311:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 237 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear		ALL CROUDINGS CURRICATEDICS.	
(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear  25  (xi) SEQUENCE DESCRIPTION: SEQ ID :310:  GGAAGACCTC GCTGGACATC CTGCAGGGCC ACATGGTGGC TCTGCTTGTG 50  ATTCTGGGGT CCACCCTCTC CAGTCAAGAG AACCCCCGTC GGGTTTAATG 100  TATCAGGAAA GAGA 114  (2) INFORMATION FOR SEQ ID :311:  (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 237 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		• • •	
(C) STRANDEDNESS: double (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID :310:  GGAAGACCTC GCTGGACATC CTGCAGGGCC ACATGGTGGC TCTGCTTGTG  ATTCTGGGGT CCACCCTCTC CAGTCAAGAG AACCCCCGTC GGGTTTAATG  TATCAGGAAA GAGA  114  (2) INFORMATION FOR SEQ ID :311:  (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 237 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		- · ·	
(D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID :310:  GGAAGACCTC GCTGGACATC CTGCAGGGCC ACATGGTGGC TCTGCTTGTG 50  ATTCTGGGGT CCACCCTCTC CAGTCAAGAG AACCCCCGTC GGGTTTAATG 100  TATCAGGAAA GAGA 114  (2) INFORMATION FOR SEQ ID :311:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 237 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	20	* '	
25 (xi) SEQUENCE DESCRIPTION: SEQ ID :310:  GGAAGACCTC GCTGGACATC CTGCAGGGCC ACATGGTGGC TCTGCTTGTG 50  ATTCTGGGGT CCACCCTCTC CAGTCAAGAG AACCCCCGTC GGGTTTAATG 100  TATCAGGAAA GAGA 114  (2) INFORMATION FOR SEQ ID :311:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 237 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	20	·	
GGAAGACCTC GCTGGACATC CTGCAGGGCC ACATGGTGGC TCTGCTTGTG 50  ATTCTGGGGT CCACCCTCTC CAGTCAAGAG AACCCCCGTC GGGTTTAATG 100  TATCAGGAAA GAGA 114  (2) INFORMATION FOR SEQ ID :311:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 237 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear		(b) forobodi. Iineai	
GGAAGACCTC GCTGGACATC CTGCAGGGCC ACATGGTGGC TCTGCTTGTG 50  ATTCTGGGGT CCACCCTCTC CAGTCAAGAG AACCCCCGTC GGGTTTAATG 100  TATCAGGAAA GAGA 114  (2) INFORMATION FOR SEQ ID :311:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 237 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear			
GGAAGACCTC GCTGGACATC CTGCAGGGCC ACATGGTGGC TCTGCTTGTG 50  ATTCTGGGGT CCACCCTCTC CAGTCAAGAG AACCCCCGTC GGGTTTAATG 100  TATCAGGAAA GAGA 114  (2) INFORMATION FOR SEQ ID :311:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 237 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear			
GGAAGACCTC GCTGGACATC CTGCAGGGCC ACATGGTGGC TCTGCTTGTG 50  ATTCTGGGGT CCACCCTCTC CAGTCAAGAG AACCCCCGTC GGGTTTAATG 100  TATCAGGAAA GAGA 114  (2) INFORMATION FOR SEQ ID :311:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 237 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	25	(xi) SEQUENCE DESCRIPTION: SEQ ID :310:	
ATTCTGGGGT CCACCCTCTC CAGTCAAGAG AACCCCCGTC GGGTTTAATG  TATCAGGAAA GAGA  (2) INFORMATION FOR SEQ ID :311:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 237 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear		(112)	
TATCAGGAAA GAGA  (2) INFORMATION FOR SEQ ID :311:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 237 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear		GGAAGACCTC GCTGGACATC CTGCAGGGCC ACATGGTGGC TCTGCTTGTG	50
TATCAGGAAA GAGA  (2) INFORMATION FOR SEQ ID :311:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 237 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear			
TATCAGGAAA GAGA  (2) INFORMATION FOR SEQ ID :311:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 237 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear		ATTCTGGGGT CCACCCTCTC CAGTCAAGAG AACCCCCGTC GGGTTTAATG	100
(2) INFORMATION FOR SEQ ID :311:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 237 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	30		
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 237 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear		TATCAGGAAA GAGA	114
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 237 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear			
<ul><li>(A) LENGTH: 237 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>		(2) INFORMATION FOR SEQ ID :311:	
<ul><li>(A) LENGTH: 237 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>			
<ul><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	35	(i) SEQUENCE CHARACTERISTICS:	
(C) STRANDEDNESS: double (D) TOPOLOGY: linear		·	
(D) TOPOLOGY: linear			
		i i	
		(D) TOPOLOGY: linear	
40	40		

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	(xi) SEQUENCE DESCRIPTION: SEQ ID :311:	
	ATGGCAAATA GGAAGAAGCT CAGTATCCTC CTCCCACCAT AACCCCACTC	50
5	TCCACTGCCT CCTGGACCAT AGTTTCCTCC ACTATACGGT CCCCCCATGT	100
	TCCTGCTACC ACCAAAGTTT CCACTCTTTA TCGAACCGTA TTAGAAGGTC	, 150
	GCTGGTTATA ATTTCCAAAA TATGTAATTT CCACTTCCAA ATCCTTTATA	200
10	GTTGTCATAA CCACCTCCGT AGCCCCCACC CTGTTGC	237
	(2) INFORMATION FOR SEQ ID :312:	
15 20	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 147 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :312:	
25	TNNTCCACAA CAGNGGGACT ACTGAAGACT AGAGAACGCC TCTGTGNGAG	50
	TGGTGCAGAC AAAGACCTCA CTAAAGTGNG CTTAACAGAG TACTAGAGGA	100
30	GAGAACTTGG CAATAGCAAG TACAGACAAC TATGTGAGAA ATACTGC	147
	(2) INFORMATION FOR SEQ ID :313:	
35	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 151 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :313:

	CACAACAGNG GGACTACTGA AGACTAGAGA ACGCCTCTGT GNGAGTGGTG	50
	CAGACAAAGA CCTCACTAAA GTGNGCTTAA CAGAGTACTA GAGGAGAGAA	100
5	CTTGGCAATA GCAAGTACAG ACAACTATGT GAGAAATACT GCTCCCAAAG	150
٠	G	151
10	(2) INFORMATION FOR SEQ ID :314:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 287 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(5) 101020011 11.1021	
	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :314:	
20		
	GAAGGTTGTA CGTGGACACT ATAAAGGTCA GCAAATTGGC AAAGTAGTCC	50
	AGGTTTACAG GAAGAAATAT GTTATCTACA TCGAACGGGT GCAGCGGGAA	100
25	AAGGCTAATG GCACAACTGT CCACGTAGGC ATTCACCCCA GCAAGGTGGT	150
	TATCACTAGG CTAAAACTGG ACAAAGACCG CAAAAAGATC CTCGAACGGA	200
	AAGCCAAATC TCGCCAAGTA GGAAAGGAAA AGGGCAAATA CAAGGAAGAA	250
30		
	ACCATTGAGA AGATGAGGAA TAAGTAATTN ATATANA	287
	(2) INFORMATION FOR SEQ ID :315:	
	(2) INFORMATION FOR SEQ ID 1515:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 183 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

	(X1) SEQUENCE DESCRIPTION: SEQ ID :315:	
	GGAATCAAAC GNCTCTATAA TGAAGATAAT GTTCAGAAAA CGTGGGTTCT	50
5	GTGGTGACAC TGATTTATCA AGACAAGAGG GACATGCTTC CCCTTGTCCA	100
	CCTTTGCAGC CTGTTTCTGT CATGTAGTTT CAACAAGTGC TACCTTGAGT	150
	GTAAACTAAG GTAGACTACT CTGNGAATAA GAA	183
10	(2) INFORMATION FOR SEQ ID :316:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 135 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :316:	
	GGAATGAATC AAACGNCTCT ATAATGAAGA TAATGTTCAG AAAACGTGGG	50
25	TTCTGTGCGT GCACTGATTT ATCAAGACAA GAGGGACATG CTTCCCCTTG	100
	CCACCTITGC AGCCTGTTTC TGTCATGTAG TTTCA	135
	(2) INFORMATION FOR SEQ ID :317:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 187 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :317:	
	CGTTTGAAAT TCATCCCAAC TGTAGGCTGA GTGACCTGAA GTTGACAGAC	50

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	•	•
. •	TGCCGAAGTC CAAAAGCTTC AGCATTTCCT TAGTGTCAGG ATCTACTTCA	100
	ATAATNNTGA TCCAAGGCTG AGACCTCAGA AACATAATGC TCTCCTTTCC	150
5	CTATNTTTTC TGCGGCTTGA TGGAGATACC TTTACTG	187
	(2) INFORMATION FOR SEQ ID :318:	
10	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 268 base pairs</li><li>(B) TYPE: nucleic acid</li></ul>	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	. ,	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :318:	
20	TCCCAGGAGA AGGAACTTTG AAATTCATCC CAACGTAGGC TGAGTGACCT	50
	GAAGATTGAC AGACTGCCGA AGTCCAAAAG CTTCAGCATT TCCTTAGTGT	100
	CAGGATCTAC TTCAATAATN NTGATCCAAG GCTGAGACCT CAGAAACATA	150
25	ATGCTCTCCT CCCTTNCTTT TCTGCGCTTG ATGGAGATAC CTTTCACTGT	200
	GCCTCTCTGA ATCGTTTCAT CAGATGCTGA CGTAACCTGC TATTTGTTGN	250
30	AGCTTTCNGT TGNNNTAA	268
	(2) INFORMATION FOR SEQ ID :319:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 138 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :319:

	ACTGCACCCA CCCCAAGGCC ATGCAGGGTA TGGAGATGTC ATTTATTATA	50
	AGATGAACAG ATAAGCTGGA CCAATAATTT ACAGATTCCA CAGAGGGTGA	100
5	GGACACCCAG ATGCGCCAGG ACTGTAGGAA ATCACAAT	138
	(2) INFORMATION FOR SEQ ID :320:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 118 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :320:	
••	ARATGATGAT ARATTCATCC TCTTCTGCTC TTARAATTTC ATARACCTCA	50
20	GGCTCTGGAG AAACAAGTTG TTCTGTTGGG CCCTTGCCAT CAACACACTT	100
	GTAATCATAC TTCCCCCA	118
25	(2) INFORMATION FOR SEQ ID :321:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 160 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :321:	
	AGAACAGTTG AAGGTCTGAG GTGTTGAGAG GCAAATGGGG TCTCTGGGTG	50
40	GATCCTGGTC CTGTCAGCAG GCCTGGACTT GTTCAGGATG GACTGGTGGC	100
	GTTATAAAGG GCAGATCAGG GTGCCTGTCC CTTGGCATGT CCCTTAAGAT	150

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	TTCCTTTTCC	160
	(2) INFORMATION FOR SEQ ID :322:	
5	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 281 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	
10	(-,	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :322:	
15	AGGAGGGAGT TAATCCAAAC CACACAATGA AGTCTTCAAA CCACCNCCCG	50
	AACAGGGCTG CTGATTGTTC CTTTCACTTT TGNGGTGACC TTGAGCTCCC	100
20	TTAAAAAAAA AACTTGGAGA ATCACAACTG GCAATGCACC GCAGTTCTCG	150
20	AACTACACAA GCATAGTCTG ACTAAGTCAC ATGTGTTTCC ATATCAACTT	200
	GTTTGACAGG GCGACCTACT GCAAAGCAGG CTCAGTTACC CCACCAGTCA	250
25	ACCCCCTGGG AGTATAATNN TCTCCATANA A	281
	(2) INFORMATION FOR SEQ ID :323:	
30	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 99 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :323:	
	GGAATTTTCT CAAAGAAAAC GCAATAGCCA ATTGGAACCT ACTNTANCGC	50

ANTTTATNNN GTCTTCTTTA ANNTAGAGTG ACTTACTGAT TTATTATTG

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.. (2) INFORMATION FOR SEQ ID :324:

	•	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 167 base pairs	
<b>'5</b>	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :324:	
	GGAATTTTCT CAAAGAAAAC GCAATAGCCA ATTGGAACCT ACTNTANCGC	50
15	ANTITATION GTCTTCTTTA ANNTAGAGTG ACTTACTGAT TTATTATTGA	100
	CACNIGTCCN NIGCICNAGN TTACCATCCT TATGTGAATA CTICAAGGGA	150
	TTGCCCGCGT TTTTAGG	167
20	(O) ENDODYS DED COO ED . 205	
	(2) INFORMATION FOR SEQ ID :325:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 160 base pairs	
25	(B) TYPE: nucleic acid	
23	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(5) 10102001. 12.11041	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :325:	
	(,	
	TGATCCAACT CTTCCTGTGT GAAAAGAAGA ATGATGGCAG GAAGAACATA	50
35	AAGACTTTAA AACTCCTAGC CGGGGTTTGT CGGACTCTTT GNCAGTAGTG	100
	ATTTAGCCAA CCAGGCAACA GAGATACGAT CTAATCTCCT CGCCCCTCTT	150
	TCGGGTCGCG	160
40		
	(2) INFORMATION FOR SEQ ID :326:	

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(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 124 base pairs(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :326:	
10	GGAAGGGGTG TTGTTTGATA GACATTATCT GTGGCTGGGT CTTTCTGGCT	50
	GATGAGAGAC ATGTAGATTA TGTGAAGCAA GTGGCTAGAA GATGAGAGAG	100
15	AACATGAGAG AGCAGAGTGC TCTC	124
	(2) INFORMATION FOR SEQ ID :327:	
20	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 253 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :327:	
	AGCCTAGTTT GAACATCCTC ATCCCNGTGT TAGACCGGAT CCGATATACA	50
30	GAGTOTTAAG GAAATCGCAT CAACGTGCCT GAGCAGTCGG CTGTGACTCT	100
35	CGACAATGTA ACTCTGCAAA TCGATGGAGT CCTTTACCTG CCATCATGGA	150
	CCCTTACAAG GCAAGCTACG ACGCGAGGAC CCTGATATGC CGTCACCCAG	200
	CTAGCTCAAA CAACCACGAG ATCAGAGCTC AGCAAACTCT CTCTGGACAA	250
	AGT	253
40	(2) INFORMATION FOR SEQ ID :328:	

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(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 200 base pairs(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
· 5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :328:	
10		
	GAACCTCTGG GCTCTCATCC TCTCCTATTG ACAGTGAAGC CCATGGCAAA	50
	TAGAAGAAGC TCAGTATCGG CTCCTCCCAC CATAACCGCG TTNAAATCGC	100
15	CTCCTGGACC ATAGTTTCCT CCACCATAAG TCCCCCCATG CTCCTGCTAC	150
	The second secon	200
	CACCGAAGTT CCCACTCCTG NGCGAACCGT AGTTAGAAGA TCGCTGTTAT	200
	(2) INFORMATION FOR SEQ ID :329:	
20		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 280 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :329:	
30		50
	TGACCTGATC ATCCTGAAAA ACTTTATGGG GGAGAAAGGT CAGCAGCTTC	50
	TCTTTCTTTT NTCGAAAATN ATAAAACTGC GTATTCTACT TTATATTTAA	100
35	TGTAAGGAAG AAAATATACA AGCCCATATT TACATCGTAT TTCTATTAAG	150
	2002 202 202 CHROLDENCE HOLDENCE TACTATOLO ATNOVA ACATA	200
	AGCAACAATA GTTCATATGT TCATGTTTGC TACTATCACA ATNCAACATA	200
	TGAACACAGA TCAGCTCTAT ACCATGAATA CTGCTGGAAG TGATGGTTTA	250
40		
	GGATTACCAA CTCACTGCTG CCATGACCGA	280

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	(2) INFORMATION FOR SEQ ID :330:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 268 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :330:	
	CCTGAAAAAC TTTATGGGGG AGAAAGGTCA GCAGCTTCTC TTTCTTTTNT	5
15	CGAAAATNAT AAAACTGCGT ATTCTACTTT ATATTTAATG TAAGGAAGAA	100
	AATATACAAG CCCATATTTA CATCGTATTT CTATTAAGAG CAACAATAGT	150
•	TCATATGTTC ATGTTTGCTA CTATCACAAT NCAACATATG AACACAGATC	200
20	AGCTCTATAC CATGAATACT GCTGGAAGTG ATGGTTTAGG ATTACCAACT	250
	CACTGCTGCC ATGACCGA	268
25	(2) INFORMATION FOR SEQ ID :331:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 170 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :331:	
	TCGCAGGAGA AGGAACCTAT ACACCCTTTA TAGAGCTTTA AATCGACTGT	50
40	AGAGTTTTGT GGTCTTCCAG TCCCAAATGT TTAATTTTCC ATTTGCATTN	100
40	TGAAATCACA TAACTCATGT CTGAAAAGTC CACCTGACAA GCATACCTGC	150

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	TACCATATGC CCTTAAAAAT	170
	(2) INFORMATION FOR SEQ ID :332:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 223 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :332:	
15	TCGCAGGAGA AGGAACCTAT ACACCCTTTA TAGAGCTTTA AATCGA	ACTGT 50
	AGAGTTTTGT GGTCTTCCAG TCCCAAATGT TTAATTTTCC ATTTGC	CATTN 100
20	TGAAATCACA TAACTCATGT CTGAAAAGTC CACCTGACAA GCATAC	CTGC 150
	TACCATATGC CCTTAAAAAT NNGGNNNNNG NNNNGGNTGA ANGGTT	CTGT 200
	GTTCCAAAAA TNTAAGATTT GTT	223
25	(2) INFORMATION FOR SEQ ID :333:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 132 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :333:	
	AGACAATTGG CGGCATCCTC GTAGGCTTCA CTAACTCCCA CAAGTT	CCTTC 50
40	TGGTTTCATT TCGGTTATTT TTTGCAGCCA ATTCTCTCCA TGTTTG	GCAG 100
	TCACAAGGCT CATGTGCTTC ACCAAGGCAC TC	132

	(2) INFORMATION FOR SEQ ID :334:	
. 5	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 235 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :334:	
	AAGTTGTTCA TGGNAGGCAT TTATCCTNTC AATAATNCAA ACGAGGCTTC	50
15	TGGAATAACC AGTGCCCCAT TCCATCAGAG TCTTTGCGCG ACTAAAGCCT	100
	CCATNTTTGC CAATTTCAAT TGTTTGGGAT TCTAGCACTC CTTACCNGCA	150
	GTAATGCCCT TGCTGCAGAC AACAACACCT GGACTGNGAG ATGGACCAAT	200
20	TCTCAATGGC AATCCAGGGA AAGAGTGATC CTTCT	235
	(2) INFORMATION FOR SEQ ID :335:	
25	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 169 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li></ul>	•
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :335:	
35	ATGCCCGCAC CATCCGCTAC CCCGATCCCC TCATCAAGGT GAATGATACC	50
	ATTCAGATTG ATTTAGAGAC TGGCAAGATT ACTGATTTCA TCAAGTTCGA	100
	CACTGGTAAC CTGTGTATGG TGACTGAGGT GCTAACCTAG GAAGAATTGG	150
40	GNGATCACCA ACAGGAGAG	169

	(2) INFORMATION FOR SEQ ID :336:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 193 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :336:	
	ATGCCCGCAC CATCCGCTAC CCCGATCCCC TCATCAAGGT GAATGATACC	50
15	ATTCAGATTG ATTTAGAGAC TGGCAAGATT ACTGATTTCA TCAAGTTCGA	100
	CACTGGTAAC CTGTGTATGG TGACTGAGGT GCTAACCTAG GAAGAATTGG	150
20	GNGATCACCA ACAGGAGAGG CACNCTGNAN TCTTTTGGCN NNG	193
20	(2) INFORMATION FOR SEQ ID :337:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 307 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :337:	
	CAAAAGTCAT CCACAAGTTC TTTGTCTAGG ACTTCTAGCT GCTCAGACCC	50
35	TCAGGGTCTT TGGATTGTTA CCAAAGTCTG TCAAACAGAC CAGTAGTTTA	100
	ATACCTGTAC AGAAAAATGT TTCTATTATG CTTCTAGTAT CTAGAAATTG	150
40	CTTGCTACAG CATGGAGGTG GTTCTGCCTT TCCCTGGCTC CTCACACTCT	200
40	CATCTGCAGG ATTCCCAGCT TTGCTCAGTC TTCATGCCCA CCAGAGGCAA	250

	AAAGGCAAAC TAAAACTGTC ATGCAGTGGT AGGTTTGAAA TNAGCTGCTG	300
	CATCATG	307
· 5	(2) INFORMATION FOR SEQ ID :338:	
10	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 305 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	·
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :338:	
	AAAAGTCATC CACAAGTTCT TTGTCTAGGA CTTCTAGCTG CTCAGACCCT	50
	CAGGGTCTTT GGATTGTTAC CAAAGTCTGT CAAACAGACC AGTAGTTTAA	100
20	TACCTGTACA GAAAAATGTT TCTATTATGC TTCTAGTATC TAGAAATTGC	150
	TTGCTACAGC ATGGAGGTGG TTCTGCCTTT CCCTGGCTCC TCACACTCTC	200
25	ATCTGCAGGA TTCCCAGCTT TGCTCAGTCT TCATGCCCAC CAGAGGCAAA	250
	AAGGCAAACT AAAACTGTCA TGCAGTGGTA GGTTTGAAAT NAGCTGCTGC	300
20	ATCAT	305
30	(2) INFORMATION FOR SEQ ID :339:	
35	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 101 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	

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(xi) SEQUENCE DESCRIPTION: SEQ ID :339:

	AATATAAAGA GGAAATGGCT CNTCACCTTC ATAATACCAA GACCTGCTCA	50
	ATTTAAGATG GCCCTTGACA TTGAAATCGT ACCTACAGAA AGCTTGNAAG	100
. 5	G .	101
	(2) INFORMATION FOR SEQ ID :340:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 113 base pairs	
	(B) TYPE: nucleic acid .	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :340:	
20	GTCGCAGGAG AAAAAAGTCG TCACGTCATG CGAGTGCGCA GGGGGCGTGG	50
20	AGAGTAGCAG TAGAGCAACA AAGTACATAT AGGACAGTGC AGCGAGGACA	100
	AGGACTTCCC GCA	113
25	(2) INFORMATION FOR SEQ ID :341:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 209 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEO ID :341:	
	, .,	
	ACACAAATAA CTACATNTAC GCAATATAAT NTTTAAAAAT CCAAAGCAAT	50
40	ATAAAAGAGC AGAGCTAGGA CTGAACAGAA CATTTTGGTG TATAACCGGC	100
J.	AGCTCAAAAT CGCCAGCTGA TTGGAGTAAA ACTGATTCTA AGCGTATTAA	150

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	·	•
	ATACGATTGA TTGTTTCCAT CACTAAGGGT GCCTATGAGT TTCTGAACCA	200
	TTTCTAGGG	209
5	(2) INFORMATION FOR SEQ ID :342:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 252 base pairs	
10	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) Torobost. Timeat	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :342:	
	GATCAANCAA AGÇACAGGGA AAAGAGGCAA AATGATCACA GAAATCCGTT	50
20	TTTTAGACAG GTGTGACTTA CACTAACGAA AAAGAAAAAC ACATGAATAA	100
	GCTTTTAATC TTCATTTTTN NNTTTTGTNA TGGTAGGCTG AGATGCTTTT	150
	AAATGTGATG TTATAAGCCT AAGGCAGCTT GACTGCAGCA ACAAGTTTTT	200
25	TACCCTCCTT GGCAAAGCAG GTCTCCTTAT GTAGCCTTGC AGCACTTCTC	250
	TA	252
30	(2) INFORMATION FOR SEQ ID :343:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 258 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :343:	

GATCAANCAA AGCACAGGGA AAAGAGGCAA AATGATCACA GAAATCCGTT

50

	TTTTAGACAG GTGTGACTTA CACTAACGAA AAAGAAAAAC ACATGAATAA	100
	GCTTTTAATC TTCATTTTTN NNTTTTGTNA TGGTAGGCTG AGATGCTTTT	150
5	AAATGTGATG TTATAAGCCT AAGGCAGCTT GACTGCAGCA ACAAGTTTTT	200
	TACCCTCCTT GGCAAAGCAG GTCTCCTTAT GTAGCCTTGC AGCACTTCTC	250
	TACAAAAC	258
10	(2) INFORMATION FOR SEQ ID :344:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 227 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :344:	
	GAAGGAACCA GTGACCAGTC ATCCCCAGAG ATAGATGAAG ACCGGATCCC	50
	GRAGGAACCA GIGACCAGIC AICCCCAGAG AIAGAIGAAG ACCGGAICCC	30
25	CAACCCACAT TCAAGTCCAC TTTGCAATGT CTCCACGGCA ACGGAAGAAG	100
	ATGACAAGGA TCACACCCAC AATGAAAGAG CTCCAGATGA TGGTTGAACA	150
	TCACCTGGGG CAACAGCAGC AAGGAGAGGA ACCTGAGGGG CCGCTGAGAG	200
30		
	CACAGGACCC AGGAGTCCGC CCACCTG	227
	(2) INFORMATION FOR SEQ ID :345:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 188 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	, , , , , , , , , , , , , , , , , , , ,	

. •	(xi) SEQUENCE DESCRIPTION: SEQ ID :345:	
	AAATAAAAAA TAAGGTCCAA GCCAATGCCT AACAGATAAT AAGAGCTCAG	50
5	TAAATGTTGA TTGAATACTA ACAAAGTAGT GAAAGCAGAC GACACAGTAC	100
	CTGGCACACT ACTARACTGT ARATGTTTTC ARATCTGART CTGTAGARTT	150
	CTGTAAGGTT TTATGTAATA TGANGTCATT AGCTATCA	188
10	(2) INFORMATION FOR SEQ ID :346:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 262 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :346:	
	AAATAAAAA TAAGGTCCAA GCCAATGCCT AACAGATAAT AAGAGCTCAG	50
25	TAAATGTTGA TTGAATACTA ACAAAGTAGT GAAAGCAGAC GACACAGTAC	100
	CTGGCACACT ACTAAACTGT AAATGTTTTC AAATCTGAAT CTGTAGAATT	150
30	CTGTAAGGTT TTATGTAATA TGANGTCATT AGCTATCATG NCTCTGGATT	200
	NNCTNNNAGG TTTTAAGATG GAGCATCTGN GNATGTCAGC CCGTCCTATC	250
	TAGAAGTGNA AA	262
35	(2) INFORMATION FOR SEQ ID :347:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 159 base pairs	
	(B) TYPE: nucleic acid	
40 ·	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :347:	
	CTCTGTTTTC CAAACGCCCA TGTGTGCTAT ACTACAACTC TTCTCGAGTC	50
5	TGATCAATTT GCAGTAGACC ATTTTAGTTC TTACGACGTT AATAACAAAC	100
	ACTTCAACAT CANTGCTCCA ATCTGAAGTT CTTGTTGCAT TGTTAAAAGA	150
10	AATNTCTAA	159
	(2) INFORMATION FOR SEQ ID :348:	
15	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 283 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	
20		
٠	(xi) SEQUENCE DESCRIPTION: SEQ ID :348:	
25	TCGCAGGAGA AGGAAGCTGC ATGCACTTGA AAGGCATGGC CTGTCTCCTC	50
23	ACTGAGTGCA AGGTCCATCG ACCAAAGCCC TGTTCTGATC AATAACATCT	100
	ACAATCGCAC CAATTTTCCG GCATGAGGTC CAAAGGAGAC ATAGGCCACC	150
30	CGGCCAACCT CCACGAAGCG CCTGAACACC ATGCGCTTCC CGGGACCCTC	200
	TGGGAGCCGT TCGCNCCTCA GCTTCCCAGC GAGGTGGAGG TCGAGCGGCA	250
35	TGGNCGACGC CCCGGAGCCC ACAACAGTAA GAC	283
33	(2) INFORMATION FOR SEQ ID :349:	•
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 169 base pairs	
40	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :349:	
5	CAGAAAGGAG GCATTGAGCA AAAACTAGGA AAATCTGAAT AAACNGTGGA	50
	CCTCGCTTGG TTAATATATT TANACTGGTG ACTCATTTTA AAACTTTCCC	100
	GGGCGCGATG GCTCATGTCT GCAATCCCAG CACTTGNGAG GCTGAGCGGG	150
10	TGGATCACCC AGGTCAGGA	169
	(2) INFORMATION FOR SEQ ID :350:	
15	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 175 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(5) 10.02001. 12012	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :350:	
25	GAAGNAACCA GTACCAGTCA TCCCCAGAGA TAGATGAAGA CCGGATCCCC	50
	AACCCACANT TAAGTCCACT TTGCAATGTC TCCACGGCAA CGAAGAAGAT	100
30	GACAAGGATC ACACCCACAA TGAAAGAGCT CCAGATGATG GNGAACATCA	150
30	CTTGGCAACA NCACAGGAAG GGACC	175
	(2) INFORMATION FOR SEQ ID :351:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 206 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :351:	
	AAATAAAAA TAAGNACCCA ACCAATGCTA CAGATAATAA GAGCTCAGTA	50
. 5	AATGTTGATT GAATCACTAA CAAAGATAAA AGCAGACGAC ACAGTACCTG	100
	GCACACTACT AACTGTAAAT GTTTTAAAAT TGAATCTGTA AAATTTGTAA	150
	GGTTTTATGA ATATAATATT ATTAACTATT ATGTCTCTGA ATTTTTNNNN	200
10	NAGGCT	206
	(2) INFORMATION FOR SEQ ID :352:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 76 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :352:	
25	AGACATACTG TAGTGTCTAA ATAATATTTG TCNGAAGATA ACAATTATGG	50
	GACTTTAAAG CCGACAGTGA AATTAT	76
20	(2) INFORMATION FOR SEQ ID :353:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 245 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :353:	
40	(AL)	
	ACATTTGGCC CTCAGACTGT AATTTCCATA CTACTNTGAC TGATACTAGA	50

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	TGACCTGGCT GCCTAGGGGC TGTGCTGGTC TGATTTTTTG TGAGACAAAA	100
	ACCACTCTAA ACCTCCTGGT GCACTGAGGC TGTACACACC GNCAGAACAG	150
· 5	GGCACTGCGT TTAAAAGTTT CTGACCAAGT GGTGACAACA GAGGNCAAAC	200
	GTAAGGCTGT CTGGATAAGT TGAACCTNGC TGANCGGTAG CACCA	245
	(2) INFORMATION FOR SEQ ID :354:	
10		
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 179 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :354:	
20	(10)	
	GGAATCTGTG CCACACAGCT GCACACGACT ACTGGCCAAA GGACAGCCTC	50
	AGAACATCAT GAGCTGGCGT GACCTCATGA TGNNCCTCAN TGCTGTGGGG	100
	AGAACATCAT GAGCIGGCGI GACCICATGA IGNNCCICAN IGCIGIGGGG	100
25	CTTCTGCTNG AGGCCAGCAG AGGCTCGTAT GACTACCTGT NAGACCTGCT	150
	CTTTGGGTTG AGACTTTTCA GNGACAACT	179
	(2) INFORMATION FOR SEQ ID :355:	
30		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 139 base pairs	
	(B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<b>.</b>	(D) Totoboot. Tandat	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID :355:	
70		

AAGGAACGNA TGACTTTCCA TCCCTTGAAC CAAGGCATGT TAGCACTTGC

	TCCAGCATGT TGTCACCATT TCAACAGAAA TCGCACAAAT GCTACTGTGC	100
	AAGGTGCAGC CAATTTINTT GTAAGTGTGA TTTCTTACG	139
5	(2) INFORMATION FOR SEQ ID :356:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 100 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :356:	
	TCCAGGAGAA GGAAAACTTC CACTTATAAC TGTNTCAGCC TGACTATAAT	50
20	GAAGAGACTA GCAACACCTC CTGAACACAA GCCTANTGAG CCCAGTCTTT	100
	(2) INFORMATION FOR SEQ ID :357:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 137 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :357:	
	AGAAGGAAAC ACCAAAGAAA CATCCAAGCA ATAAAGTGGA AGACTAACCA	50
35	AGATTTGGAC ATTGGAATGT TTACTGTTAT TCTTTAAGAA ACAACTACAA	100
	ARAGARATG TCARCARATT TTTCCTAGCT RACTGAG	137
40	(2) INFORMATION FOR SEQ ID :358:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 228 base pairs	

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(B) TYPE: nucleic acid(C) STRANDEDNESS: double

(D) TOPOLOGY: linear 5 (xi) SEQUENCE DESCRIPTION: SEQ ID :358: AAGGAACAAG TGGGTCATTC TCACTAAGGC TGCCTGTCAC TGCAGTCTTG 50 10 ATCAGCTTGT CAATTTGATA CTTCAGCTTT TGGTCCAAGG GACGAAGCTT 100 150 TTCCAAAACC GTTCGAATCT CTACCAGTCT CAAAACTGCA TCATGTCCCT GAAGAGATCC TCCTGAGGCT TTGTCCAGAA TGAGGTGGGT CAAATNNANG 200 15 228 GGNACATGAG CAGCAGCTGN TCTTTAAC (2) INFORMATION FOR SEQ ID :359: 20 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 248 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 25 (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :359: 30 CAGGAGCAAG GAGGCCATTT TGCTGAGCTC TCACAGCTGC TAGAGATGCT 50 CAATGACTCC CAATACAACC CAAAGAGACA AACGCTTGTT TTTTCTGCCA 100 35 CACTCACCCT GGTGCATCAG CTCCTGCTCG AATCCTTCAT AAGAAGCACA 150 CCAAGAAAAT GAATAAAACA GCCAAACTCG ACCTTCTTAT GCAGAAAATT 200 GGCATGAGGG GCAAGCCCAA GGTCATTGAC CTCACAAGGA ATGAGGCC 248 40 (2) INFORMATION FOR SEQ ID :360:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 253 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :360:	•
10	AGGCACCTGT GGAGCCATCC TCCTTGTTTT AATCGTCCTG CTGCTGCTGC	50
	CGTTCCGTGT CGCGTCGCCC ACATGACCCT GAGGTCGCAA TGATGAGTCC	100
15	TCTCTGGTCA GACACCGCTG GAAATGAATA CCAGGCCTGA CCTCAAGCAA	150
	CCATGAACTA GCTATTAAGA AATACANNGG NAGGGCGGCA GCCGGATCGT	200
	GNNGGCGTTT NTCTGNGCCG CCCGTCTCAA TCTNTGTTCT GCTTCCAGAT	250
20	GCC	253
	(2) INFORMATION FOR SEQ ID :361:	
25	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 154 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :361:	
35	GAGAACCACG GGCTCCATCC TGGCCTCCTG TNCACCTTCG AACAGATGCG	50
	GATTAGCAAG CAGGAGCACA CGAATCAAGC CCCTCCAGCC ACCAAATTTT	100
	CTARACNGGC TNGGCNATGT CGTAGTTNGT TGTCAGTNGA TCGGTAGAGA	150
40	TAAT	154

	(2) INFORMATION FOR SEQ ID :362:	
	(i) SEQUENCE CHARACTERISTICS:	·
	(A) LENGTH: 168 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	• •	•
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID: 362:	
		50
	GAGAACCACG GGCTCCATCC TGGCCTCCTG TNCACCTTCG AACAGATGCG	50
	TO THE PARTY OF TH	100
15	GATTAGCAAG CAGGAGCACA CGAATCAAGC CCCTCCAGCC ACCAAATTTT	100
	CTAAACNGGC TNGGCNATGT CGTAGTTNGT TGTCAGTNGA TCGGTAGAGA	150
	CTARACNEGC TNEGCNAIGI CEIRGIINGI IGICAGINGA ICOGIAGAGA	230
	TAATCCTGNC CACGCCCT	168
20	IMPOSTANC CHOCOGO	
	(2) INFORMATION FOR SEQ ID :363:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 198 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	The second property of the second	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :363:	
	AAGGGATAAA AGGAAGCTTT GNCACCACTC TACCATCAAA NNGGAATTGA	50
	ANGGERIAN AGGRAGOTTI GRONDOTO INCONTONELI MICCOLLINIO	
35	ACATTCCCAT TAAGGCAGTA AAACAAAAGC CAATAGCAAA CATGNATTTC	100
	ATTCAACCAT TGATAGATCT CTGCCGTTAT TCTTCAGTTT CTCTTCTCGT	150
	CTCTCTATTT NTTTCTCTGG TTGTCGACCA GCTGACTNTG NCATCGTT	198
40		
	(2) INFORMATION FOR SEQ ID :364:	

195
(i) SEQUENCE CHARACTERISTICS:

	(A) LENGIN: 121 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :364:	
10	TTATACAAGT CAAACTTGGA AGGTCATAGT AAGCATACCT ATGCTGAGAG	50
	AAAAGCATCA AATCCTCCGC GACACATCTA GTTCATCGTA ACAAAGCAAC	100
15	TCGTACACTT TCAAGTTTAA A	121
	(2) INFORMATION FOR SEQ ID :365:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 211 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :365:	
	GGTAAGTTGT ATTTGGGCCA GAATTTTAAA GAGCACTATT TCGACATTAA	50
30	AATGTATTCT TCTCGTATTA ATGCCTACAT CTTCAGAGTT TTCAATGCTT	100
	TCTAAAAGTT TCCTCTTTGG AAAGAAGAAA TCTGAAAGAC CTATCATGCC	150
35	GTTCTTCCTG GCGTCTATAT TTCCTTTAGA GAGGCAAGGT AGGATTCCGT	200
	CTCCAAGGGA G	211
40	(2) INFORMATION FOR SEQ ID :366:	
40	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 285 base pairs	

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(B) TYPE: nucleic acid(C) STRANDEDNESS: double

(D) TOPOLOGY: linear · 5 (xi) SEQUENCE DESCRIPTION: SEQ ID :366: CGGCTACAGC ATCACATCCA CTAAATGCAC AGTTGTTGAA GTCACGCCCT 50 10 GCCAGACCTC TACTACCACA TTGTTCCCTC CGGTGACCAG TTTGTCCGTC 100 ACTGTCAGGA GAATGNCCCG TGTCGAATCA TCGATCTCCA TCCGAGCCAA 150 200 AAGTTTTCCA TATGCTGAAA TTACTGAATT GCCCTCGTTT ATAGTATATG 15 250 ATACAGTGGC CTTCGTTGGA GGCAGATATC AAGCATGGGG ATAAGCAGTT 285 TTCTGGTCCT TAAGGGCTCT CAGCAAATCT CCGTG 20 (2) INFORMATION FOR SEQ ID :367: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 149 base pairs 25 (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 30 (xi) SEQUENCE DESCRIPTION: SEQ ID::367: GACACTGAGG CAGCTACTGA GAAGGGCAGA ACATGTCTCA ATCCATAGAG 50 GTCTTGGCAG GCGAACCCAG AGAGACTTGC AGTACGTGAG AAGATGGAGA 100 35 149 ACCAAATAAA AGGACTGGAG TCCAGTTCAA ACAAGGAGGG AGTGGTAGT (2) INFORMATION FOR SEQ ID :368: 40 (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 137 base pairs

197

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
-		
5	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :368:	
	GGTTCCCGCT CTCACAGCCA TTGCAGTACA TGAGCTCCAT AGAGACAGCG	50
10	CCGGGGCAAG TGAGAGCCGG ACGAGCACTG GCGACTTGTG CCTCGCTGAG	100
	GCAATACTAT AATANGCAAG GAACTTTTGA GGCCGAG	137
15	(2) INFORMATION FOR SEQ ID :369:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 192 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :369:	
	GCCATCATAA GTTCAAAAGA AAAGAGAAAG TGTTATTTTT CTGTTAGTGA	50
	CATGTAGTCC CTTTGTTCTA GTAGGAAAAA AGGTGCCTAG AGGTAGTATA	100
30	TAGAGTAAAT ATTGTTCCTT TGCCTACTCG TGCTTCCAAT GATTAAGGAA	150
	ATGTTAAACA NNNGTNAAAG TCTGTTTTGT CAATGCGGGA GT	192
35	(2) INFORMATION FOR SEQ ID :370:	ť
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 197 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

50

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	(xi) SEQUENCE DESCRIPTION: SEQ ID :370:	
5	GAGACTTAAG TAAAACGGCT GCAGGCCAGA TTCGCCCACC AGCTCAGAGA	50
	CCACCTTTAT CCATGCTTTG AAGTAGGACT CCTTCCGTCT TCAAAATNTT	100
	GAAGACCCTA ACANGCTTTT ATGATGGGGG TCATATCTAT GGTCACGNAT	150
10	ATAGTAGAAA CCAAAAGAAT GTAAGTATTT GTNNATGATT TAAAAAT	197
	(2) INFORMATION FOR SEQ ID :371:	
	(i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 114 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
<b>20</b> .		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :371:	
25	GCATCTGNCA GCTGCTGCAG GCTGACAGCC TCCAGACCTG GACAGAATTC	50
	ATACACTCCC GGAGCTGAAA AAACCGAACA TAAGGGAGTG CACAAGAGCC	100
	GGGCTTTGGA GAGG	114
30	(2) INFORMATION FOR SEQ ID :372:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 127 base pairs	
	(B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID :372:	

CTTTCTCTAC TCCATCCATT ATCTCCGGGA TTCCTCCACA TTCCCTTCAG

· CTCCTAGTTG TTCCACCTTG GCTAACAATT TACCAATCTT TTTTTCTATG

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	·	
	AACACGTTCT GCCTTTGCTG CTACTTC	123
5	(2) INFORMATION FOR SEQ ID :373:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 257 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :373:	
	AAGCGCTCAA TTCGCATCCA CAATGCAACC ACGAACTGAT TTTCTCTTTC	50
20	TTTTTCAGTT CTCCTTGGTC TGTAACAGGA ATGCCCCTTA CTCAGTAGCA	100
	GGCGGACACG GCCATGGGTC AAGACACCCT GCTTCATGGG GAAACCTTGT	150
	TTGTCGTTCC CACCACTGAT TCGGACCACA TAACCTTATN NNATCCCGAG	200
25	CGTTAGCAGC AACTTTTGTG GCCATACGCT TCTCATAGAA AGTACGAAGT	250
	TTGGCAT	257
30	(2) INFORMATION FOR SEQ ID :374:	
•	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 180 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :374:	
40	, , , , , , , , , , , , , , , , , , ,	
	GCATCATCAT TGACATCCCT ATCAATGTCT ACGCTGCTGG CAGAGGACTG	50

••	NCCATTTGGA GCTGAGATGT GTAAGCTGGT GCCTTTAATA CAGAAAGCCT	100
	CCGTGGGAAT CACTGTCTGA GTCTTGTGTC TAGTATTGAC AGATATAGCT	150
5	TTGTTCTTGG AGTAGAATTA AGGAATTGCG	180
	(2) INFORMATION FOR SEC ID :375:	
10	<ul> <li>(i) SEQUENCE CHAR STERISTICS:</li> <li>(A) LENGTH: 323 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :375:	
20	GGACCATTCT GATCATCCTC ACTGGACGCC ACAGGGGCAA GAGGGTGGTT	50
20	TTCCTGAAGC AGCTGGCTAG TGGCTTATTA CTGTGACTGG ACCTCTGGNC	100
	TCAATCGAGT TCCTCTACGA AGAACACACC AGAAATTTGT CATTGCCACT	150
25	TCAACCAAAA TNGATATCAG CAATGTAAAA ATCCCAAAAC ATCTTACTGA	200
	TGCTTACTTC AAGAAGAAGA AGCTGCGGAA GCCCAGACAC CAGGAAGGTG	250
30	AGATCTTCGA CACAGAAAAA GAGAAATATG AGATTACGGA GCAGCCAAGA	300
	TTGATCAGAA AGCTGTGGAC TTA	323
	(2) INFORMATION FOR SEQ ID :376:	
35	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 223 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	

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.•	(xi) SEQUENCE DESCRIPTION: SEQ ID :376:	
	GGGGAATCCC ACCTCACCCA TTGNGGTGAA ATGCTTTTTT CTAAGAGGTG	50
· 5	AAATCACTCG CTGGTGTTTA TTTCGGCACA ACCAGAAAAT AGTGNGGGAT	100
	ATTGAATTAT GGGAGGCTCT GACTGTCTCG NGTGCAGCTT ACATTCACAG	150
10	ATGGGGGGTA GTTTTTATAT TCTATAAGCG AGCATATTAA ANGCAATATG	200
10	AGTCAGTCCT GCATTTATGT CTT	223
	(2) INFORMATION FOR SEQ ID :377:	
15	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 122 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :377:	
25	GGCTCAGGAT CCGGCATCCT TTATGCCTCC ACAGCACCTT GCTCTTTCCC	50
	CAGCCAATCA CTTTAGATGC TGAATCGATT TTAAACANAT GTTTTGTCAT	100
30	ATGCCTAATC AAGAGCCAGG TA	122
30	(2) INFORMATION FOR SEQ ID :378:	
35	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 195 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :378:

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	GGCAGTGCGT GCTTCATCCC TTTATGAAGA ACAGAAAATT ATGACTACTC	50
	TACAAGGTGG ATAATACTTC GGTACCTTGC TTGCCACAGC CCTGTTCCTC	100
5	AAAGCTGAAT TGATAAATTT CTCTTTGACT TCCAAGACCT AGCAGTTATA	150
	AGGCGCCTTG AATAAAGTTT GTGCCTGAAA ATGTGGAGCA ATGCT	195
10	(2) INFORMATION FOR SEQ ID :379:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 210 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :379:	
20		
	GTAGCCCTGA GGTCATCCTG CAAAGNGCGT ATCAAAAAAN ACGAAGTTAG	50
	GGTGACAAGG TTTGACAGTG ATGTTTACAA GTCAAACTTG GAAGGTTATA	100
25	GTAAGCATAC CTANGCTGAG AGAAAAGCAT CAAANCTNNG GNACATANTN	150
-	GGTTTNTNGN AACAAAGCAA CTTGTAATTT AAGNTTAAAC NGAGCATCAT	200
30	ATANNNNGG	210
	(2) INFORMATION FOR SEQ ID :380:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 238 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :380:

	CTGGCTCACC TGGACAACCT CAAGGGCACC TTTGCCACAC TGAGTGAGCT	50
	GCACTGTGAC AAGCTGCACG TGGATCCTGA GAACTTCAGG CTCCTGGGCA	100
·5	ACGTGCTGGT CTGTGTGCTG GCCCATCACT TTGGCAAAGA ATTCACCCCA	150
	CCGTGCAGGC TGCCTATCAG AAAGTGGTGG CTGGTGTGGC TAATGCCCTG	. 200
	GCCCACAAGT ATCACTAAGC TCGCTTTCTT GCTGTTCA	238
10	(2) INFORMATION FOR SEQ ID :381:	
15	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 275 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :381:	
	GTCCTATGGC ATGAATGTTT GCAACCAACC CAGGAAAAGC CTTAAAGGAA	50
25	ATAGCTGTTC ACATAGGAGA CCGTGACAAT GCTGTACGCA ATGCTGCACT	100
	CAACACCAAG CAACGATGCA CAATGTACAT GAGGATCAGG TGTTCAAACT	150
30	GATTGGAAAT CTTTTTGAAA AGGATATGAG CATGCTCGAG GAGAGGATTA	200
30	AGCGTCAGCA AAGAGACCCT CTCTGCACCA ATAAAACAGG TGGAAGAAAA	250
	CCTAGCNCGC ACAGAACATA AGCTC	275
35	(2) INFORMATION FOR SEQ ID :382:	
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 96 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

100

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	(xi) SEQUENCE DESCRIPTION: SEQ ID :382:	
5	AAGCAGAGTA CGCACGTCAG GCCCTTCCAC GCCCACCCCA ACACTTTAAA	50
5	CNTACTGGGC GATGGGGCCG TTTNGCTGGC AGTTCAAGAT AAAACA	96
	(2) INFORMATION FOR SEQ ID :383:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 196 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :383:	
20	GGACTTGATG GCTTCTTTCA AAGTCATAGA CTTGTGGTAA ACTTCTTGCA	50
	AGGAGCTCTG GGCACCCTCT GAAGCAGAGC CAATTGCTCG AGCATCACAC	100
25	TGTACAAAGG TCCAGATGGG TTCATATGAA ACAGCTGGAG TCCTTTTCAT	150
	CAATHCHAAT NGANNGGTTA CTCCAAAGGG ACGAGACATG CACCTG	196
	(2) INFORMATION FOR SEQ ID :384:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 206 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :384:	
40	AAGGAGGCCT TTGAGTCCCA TCCTCTGCCA CGCAGAGAGG CAGGCCTGGC	50

ATTTCAGCCT CACTTTGTGT AGGTCACTTT TCGGTCTGTG TTGTAGCTCA

	CCAACCAACA GTCAAACCCC AGCGTGGTAG CACGAGGTCC AGAACCTCTG	150
	CTTAGTGGGC CCGTATAATA AACGCAACCT GACCCAATTN NGGTTTCTTT	200
5	CCCCAT	206
	(2) INFORMATION FOR SEQ ID :385:	
10	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 134 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :385:	
20	GAATGCTTGG GATCATCCAG GTGNCTCTAT TTATAGGCAC CTGTGTTCAC	50
20	CAGCAGTOTO TOTATTAGAA TGCTTGGTGT GCCAATGTTT CTTGAATTAG	100
	AAGCCTGGGG NCACCTAGGT GTTTCTATTA TAAA	134
25	(2) INFORMATION FOR SEQ ID :386:	
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 161 base pairs  (B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :386:	
	CAAGGCCTTC CTGCACTGGT ACACGGCGAG GGCATGGACG AGAGGAGTTC	50
40	ACCGAGGCCG AGAGCAACAT GAACGACCTG GTGTCCGAGT ACCAGCAGTA	100
-	CCAGGACGCC ACGCCGACGA ACAAGGGGAG TTCNGAGGAG GAGGAGGCGA	150

200

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	GGACGAGGCG T	161
	(2) INFORMATION FOR SEQ ID :387:	
5	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 170 base pairs</li><li>(B) TYPE: nucleic acid</li></ul>	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESC TON: SEQ ID :387:	
15	GGTGAGCCTC CGCCATCCAG CP CAAAC TGTGC GAC CGCAGCTGTG	. 50
	CCGTGGCACG ATGGCGAGGA AGCCAGCCCC AAGGAL CAC TGAAAACACA	100
20	ACCAGTCAAT GCCGTGTGGT TTTGTTTGAA TATAAATNGC TGAAAGTGTT	150
20	GTTTTTNAG GCAGTAATNT	170
	(2) INFORMATION FOR SEQ ID :388:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 250 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :388:	
35	TCCATCTGAC ATCGCATTTC CATAGAAATG GCCAAAGAAA GAAGGTCCTG	. 50
	GGGTTTTTCA TAGAAAGCTC AAAAAGTTCA ACCTTTGATG CTATCCCCCA	100
40	GCCCAATACA AAATACACAG AAAAAGCAAT TATTAAAAAC GGCTTCGGTT	150

TCTTTTTCT CTTTAATNNC CTACAATNGC TTTACATATT CGTGTGCAGC

	ACCTACTTCT TTATGCCGTG AACTGAAATC TAAGATTTCA AACTGAAATC	250
	(2) INFORMATION FOR SEQ ID :389:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 268 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :389:	
15	GCCATCTCCC CGCCACCCNC TCGTCCCCTT CTTNTCNNGC CACCCTTCCT	50
	•	
	CNCTCNTCCG TTTTNGCTCC ACTCCACTCC TCCNTTTTNA GTACCCTCCT	100
	CNTTTATNTA GAGTTACTGA GAGCCGACCT GACGTCTCCA ACATNCCGTN	150
20	CNITIAINIA GAGIIACIGA GAGCCGACCI GACGICICCA ACAINCCGIN	150
20	TCTTATATCT CATCNCGGTT NTNGANGAAT GNAGTNAGGG TTTCCGGGAG	200
	AGACCNAACT TGCTCTAGCC CTTTCCAGCC GCTGTTGTTA AACTGACCTC	. 250
25	GTAGGGCNTG AGGGAGGT	268
	(2) INFORMATION FOR SEQ ID :390:	
	(i) CROUDING CUIDAGEDICATOR.	
30	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 177 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(b) forobodi. Timeal	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :390:	
	GTCAGAGGCA GCCCATCCAG CACGTGCTAG GTGTTCCCAT ACGCACAGGA	50
40	GICAGAGGCA GCCCAICCAG CACGIGCIAG GIGIICCCAI ACGCACAGGA	50
40	GAGGCGAGCT AGCCAGCCAA GGCGGGCAGG CGGGGAGGCC CTCTAGCTGT	100

	••	TTGCCTCACC TGTGGGGCCC CAGCAGGGAG GAGTCACCAG CCTAGAGGGG	150
		CCAGGTATAC ACCTTÁNAGA GGATGAC	177
5		(2) INFORMATION FOR SEQ ID :391:	
		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 139 base pairs	
		(B) TYPE: nucleic acid	
10		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
15		(xi) SEQUENCE DESCRIPTION: SEQ ID :391:	
		GCTCCACTTC CCACATAANA CNAGACCTCT CACAAAAGAG TTCACTGATA	50
		TGTGAATGCA GCTTTCTCCC CATGGTAGCC AGGACAGGGT GCACATTAAG	100
20		GCAACCCCAA AAACACCTCT TNCTGNCTGC CTCTGCAAA	139
		(2) INFORMATION FOR SEQ ID :392:	
25		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 259 base pairs	
		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	
30		(D) TOPOLOGY: linear	
		(xi) SEQUENCE DESCRIPTION: SEQ ID :392:	
35		GAGGAGCTGC CCTCAAGGTC GTGCGTCTGA AGCCTACAAG AAAGTTTGCC	50
		TATCTGGGGC GCCTGGCTCA CGAGGTTGGC TGGAAGTACC AGGCAGTGAC	100
		AGCCACCCTG GAGGAGAAGA GGAAAGAGAA AGCCAAGATC CACTACCGGA	150
40		ACCUACCOLO GROGAGARGA GUARAGARAA AGCCARGAL CACIACCOGA	
		nconnectance (2017)	7110

	AAGAAAATTG ACAAATAATA GAGGTCCTCA AGCCCACGGA CTCCTGGTCT	250
	GAGCCCAAT	259
5	(2) INFORMATION FOR SEQ ID :393:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 189 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :393:	
	AAAGATCATC AGTTTGGAAG GTACTGGTCC AATTTATCTA GGAAGTATCT	50
20	CTTGGAGTTT CAGAAATGCT AGCTTGGACA ACTGAAAAGT CACATCACAG	100
	CTGGCATTCT GGGGGCTACC AAAACACCCC TCNNGGAGTA GAAGCTGCTG	150
	GAAGGCAGGC CTGAGCCATT CACCACGGAC AGGAAGAGC	189
25	(2) INFORMATION FOR SEQ ID :394:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 97 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :394:	
	AGAAGGGGAG GTCGAAGAAA TGTGGCTGAT CATAAGAAAG GAGCAAAGAA	50
10	AGCTAGAATT GAAGAANNNN GAAAGAAACA GAGGACAAAA AAACAGA	97
	/2) INFORMATION FOR CEO ID . 305.	

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(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 244 base pairs

	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :395:	
10	AAGAGGGGCT AAGACCCAAG TCATCCTCCA CTTTCGTTTT GTTATATTTC	50
	GCTTAGAATT GCCTCTTCTT CTCCACTTCA GAACTGCCTC AAAATTGACC	100
15	CCCTTGACTG ATTTATTGTC GTCAAAAGCA TGTTCCTCTA TCTTTTNNNN	150
	TCAGACGATC CGCTGCCTTT CTACATCTGA GAATCTTGTC AAGCATGGAT	200
20	AAACTTGNTT TTATGTTGCA TATTTTNACG GCTTCAACTT GAGT	244
	(2) INFORMATION FOR SEQ ID :396:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 185 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :396:	
	TAATATCGCC ATGTAATGGT ATACATTGTA AGGCTTATGT CACTAAAGAT	50
35	TTTTATTCTG ATCTTTCCAT AATAAAGGTC ATATGATACT GTATAGACAA	100
	GCTTTGCAGT GAAGTATAGT AGCAATAATT TTCGTACCTG ATCAAGTTTA	150
40	TTGCAGCCTT TCTTTTCCGT TTCTTTTNTG AAGGG	185
	(2) INFORMATION FOR SEQ ID :397:	

PCT/GB93/01467 WO 94/01548

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(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 218 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double

S	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :397:	
10	GGACACATCC ACCCAGTGAA CTGGACTGTG GCCATGACCC AGGGTATCAG	5(
	CTCCAAACTC TGCCAGGGCT GAGAGACACA TGAAGGAAGA TGATGGGAGG	100
15	AAAAGCCCAG GAGAAGTCCA CCAGGGACCA GCCCAGCCTG TATACTTGCC	150
	ACTTACCACC AGGACTCCTT GNTCTGCTCT GGCAAGAGAC TCTTGTCTGA	200
20	ACACTGCTTA TCTGACCC	218
20	(2) INFORMATION FOR SEQ ID :398:	
	(i) SEQUENCE CHARACTERISTICS:	
25	(A) LENGTH: 250 base pairs (B) TYPE: nucleic acid	
23	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :398:	
	GGAAGCAAAA AAACAAAACT AAGCTCGAAT TTGCTTCCAA ACCTGTAGAT	50
35	TGCATCTAAC CANGTGTCCC TATGCACCTC AGAGTACTGG AATACGAACC	100
	CAGCGAGACC TTGTCCCCTC CCATTTTGCT GNACTTTTGT TGGTGAAAAT	150
40	GAGAATGAGT TNATCCCTAC NTACTTAGTT TAATGCATTT GACCCCAGAA	200
40	AACCCCAGTA CCTTTNNACA ATGACCCAAC CANTACCTAC CATCGGCCAG	250

	(2) INFORMATION FOR SEQ ID :399:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 278 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :399:	
		50
	TCACTTGATT CATCCGTCGC GGGATTTGGG AGCACTAGCA ACATAATCAA	30
15	CACACTCCTA CAATCTTAGG CTTCACATGT GCTGATGATG ATGAAACCAA	100
13	Chenerola dell'origina di Citatoli dell'alla d	
	CTCTGCCCCA ATCATCTCCC CTTCTNTTAG GGTCTTACTA CATATCGCAA	150
	CAGAAGATAA TATTGAGGTG AAGAGGGTAA CATGAAGTTT GGCACTACCC	200
20		
	TGAAGAACTG TAGGCATCTC TTGGAATGTG CTAAGGAACT TGATGTCCAA	250
		220
	ATAATGAGAT TAAATTTATG TTTCGAGT	278
25	(2) INFORMATION FOR SEQ ID :400:	
	(2) Intolumization tax aby 10 17001	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 207 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :400:	
	GGCCAAACTC ACAGGAGCCT AGGCACAGAG CACTGAACAC TGGCTCTGCA	50
	GGCCAAACIC ACAGGAGGCI AGGCAGAGG CACIGAACAC IGGCICIGCA	30
	GCGGGAAGGA ATTAGAGCCT TCTGCTTTTG CACCTGCTTT GAGTTAGGAA	100
40		230
	GCAAGCTCTC TTCCTTGCCA GACTTCCCTT TGGGGCAGGA CACTTTTTTA	150

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.

	TACNCTGAGG CAAGGCAAAC AGTCATAGAA CAGTTATTAA ACAATANAAA	200
	ATGTGTT	207
5	(2) INFORMATION FOR SEQ ID :401:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 217 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :401:	
13	(XI) BEGOINGS BESCRIFTION. OBE 15 101.	
	GAGGCATGGC CACATTCCAA GAAATGGAAT AAGGAGTGGG ACAGCAGGCA	50
20	GGGGGCCAGC CTGGGGCCTG GGCCTTTTAA TCTAAGGACT GGGGAGAACC	100
	AAGGGACCTT AGAGGTCCTC CAGTCCTCCC CATATNNAAA GAGGGAGAAC	150
	AAGCCTGGAG AGGAGGCTAC CTTAAGACCC TAAGAAGAAT TTAGCAATCG	200
25	NTTCTCCAAA GATAGCC	217
	(2) INFORMATION FOR SEQ ID :402:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 225 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :402:	
40	TTTACAATAG ATTTCACCTT CANTTTAGTC AGAGTTGTTG ATTCAAGACT	50
	CTTCCCACAC TCGCACATCG AAACATTTTT GTGCCAGGGC TTTCCAGCTC	100

	CAATTATCTT CTCGACAGCA TATACAGAAT CCCCACATCT GGAACACTTC	150
	TCAGCACCTC CATANNTTGA GCAAATTTAG AAGTGTTTGG ATTTGTTGTA	200
5	GGCCTGTGAG GCTGAACACT CTCTG	225
	(2) INFORMATION FOR SEQ ID :403:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 95 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :403:	
20	AGAAGGGGCA TACTCGCTGG AGACCTGGTG CCTCTATCCA CTGNACGCTG	50
20	ACTGNGGCTT CCACTGCGCC CGTGTACNTT ATCGAAGCTA CAGAT	95
	(2) INFORMATION FOR SEQ ID :404:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 239 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :404:	
35	AGGAAAAATT GACATTACTT GTTAGAAGAG CAACTCTGAA AGAAAACAAG	50
	CAAATTCCAA AACAGAAAAG ATTCACAATN NAAAGGTGCA TACATTAAAG	100
	GGCCACACTG TGTAATACTG TGCCAACTTA TGCGAGTCTC ATTGTTCAGG	150
40	ATGAAATGTG AGATTGTAGT TTGAATGCTA TAAGCAGGTT CCAAGATACC	200

	CCAAATGACT GTAAGCCAGA CTNGAAGCAT GTCAAAAAG	239
	(2) INFORMATION FOR SEQ ID :405:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 189 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :405:	
15	GGCTATTATT CTAAGTGAAG TAACTCAGGA ATGGAAAACC AAACGTTGTA	50
	TGTTCTCACT GATCATTGAG AGCTAAGCTA TGAGGACTCA AAGGCATAAG	100
20	AATGATACAA TAGACTTTGG GACTTGGGAG GAAGAGCGGG AGTGGGGCGA	150
	GGGATAAAAG ACTACAAATA TGTGCAGTGT TTACTGCTC	189
	(2) INFORMATION FOR SEQ ID :406:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 75 base pairs	
	. (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	p	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :406:	
35	CACCATCCTC CAAGTAAATC CCCCCTTAGG AAAGTAAGGG AAAAGACCCC	50
	TTATAGCCCT GAGCTCCCCC TTGGA	75
40	(2) INFORMATION FOR SEQ ID :407:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 190 base pairs	

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :407:	
	MARGARGA COACHORDO BOLOROS AND	
10	TATTCATCCA GCAGTGTTGC TCAGCTCCTA CCTCTGTGCC AGGGCAGCAT	50
	TTTCATATCT AAGATCAATT CCCTCTTTTA GCACAGCCTG GGGAGGGNGT	100
	CATTGTTCTC CTCGTCCATC AGATCTCAGA GGCTCAGAGA CTGCAAGCTG	150
15	CTTGCCCAAG TCACACAGCT AGTGAAGCCA GAGCAGTTTC	190
	(2) INFORMATION FOR SEQ ID :408:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 194 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :408:	
30	GAAGACATGG CGCCCTAACA CTTCGAGACC TGCTGNTAAA TTAAAAGCTA	50
	TTTTTCATTA AACCACCATT TCCTCCACCT ATTGGAGTCA AATATGAAAG	100
	•	100
	CTGTCGATGA AGCCTGNCTG GCTGCACAAG TTNGACTGNG TCTGAATAAG	150
35	CACTITCATC ATGGACTAAG AATCCTTGGT GTGGNCNTGA TCTT	
	District interior and collect Glegorenica 1011	. 194
	(2) INFORMATION FOR SEQ ID :409:	
	(i) SEQUENCE CHARACTERISTICS:	
40 .		
	(A) LENGTH: 97 base pairs	
	(B) TYPE: nucleic acid	

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(D) TOPOLOGY: linear

• 5	(xi) SEQUENCE DESCRIPTION: SEQ ID :409:	
	GCAGCACAAG AGTCATCCAT GGATACAGTT CCAATCATTA TAACCACTTC	50
	TAAAACAAGA TCATCTTCTG CAGCACCTGG TTTTAGTTTA TCCTTGA	97
10	(2) INFORMATION FOR SEQ ID :410:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 155 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :410:	
	TTTGAGCTCC TGGACCCTTC TTTGCCTACA CTGGCCTTCC TCTCGGAGGG	50
25	ACAAGGAAGC TGGCCTCCCT TTACTCTACC NTTNNTTNTG GTCCAGGGCC	100
	AGCTCTTCCG AGGCTCCAGC CTGCTTTTCG CCGGTGTCAT CAGATCATGC	150
_0	TTTGC	155
30	(2) INFORMATION FOR SEQ ID :411:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 249 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :411:	

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	AACGAAGNGT TCCTGAATAC CACAGCCTGC TGGGAAATGA CTAGGCGGTA	50
	AGGTTCTGCC ATGCCTGTGA CCCACCATGG ACATACTGGA CCTTAATTCC	100
· 5	TCTGCTTCTG TGCTCCCTCC TGAGAACCCT TTATGAGCCT GATTCCTCAG	150
	TCTCACCAGA ATTCTGGATC ACCCAAGAGG AAAAGACTGC CAGTTCTAGA	200
	TTCCTCTATA GGGAGACCTG GATTGTTGAC CAGGTGAGAA GCCAATGGT	249
10	(2) INFORMATION FOR SEQ ID :412:	
	(i) SEQUENCE CHARACTERISTICS:	•
	(A) LENGTH: 143 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :412:	
	AGAAGGAGAC AAAACACCTC CTCTGTAATA GTACCTCGAA TGGATTCAGC	50
25	TTTACTCCTC TATAACTCAT CTTCACACCN GCATATTTAA ACAAACTAAC	100
	AAAATGAAAT ACTAATAGTA AAAAGGCTGA CCCATGTGGC TTT	143
30	(2) INFORMATION FOR SEQ ID :413:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 256 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :413:	

GGGTCCCCC ATTCACGTAC TCCATCACAA AGTACAGGCG GTCCATGGTC

50

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	· TGGAAGCAGG AGTGGAGCTG TCAGGAAGGG CGGCTTCCCG GGCAGGCCAA	100
,	CACCCACTTC TCCACCATAG TGCACTCCAC GTCATCATCT GATCACAACG	150
5	TCCTTCTTCA GGATCTTCAC AGCATAGAGC TCATCTGTGC CTTTCGTTCT	200
	GAAAGCATGA CCTTGCCAAA GCTGCCTTTC CCCAGCACCA TTAGGAAGTT	250
	AAAATC	256
10	(2) INFORMATION FOR SEQ ID :414:	
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 87 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :414:	
	TCGCAAAAGA AGNGTACCAT AACTCCTATT TCNAATGGCT GATTGTAGTA	50
25	GCACTGGAAG TTTATCAAAA CCCAGGTGTA AATATGC	87
	(2) INFORMATION FOR SEQ ID :415:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 247 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :415:	
40	AGAGGGGGAC CAATCTAACC ATCGCTCTTC CAGTCCTACC AGCACACTCT	50
70	TGCAGCGCCA TNCCACTCCC TGAGCTCAGG ATCCTAGCCC GCCCGCCCGC	100

	GGATGCTAGT NNNCTCCACC CTNCCCACCT GTCATACCTG TGTANTACAC	150
	ACCCACCCGT ATCACGCAGG ACATGAACCA GCACCACTAA GGCCCCGGNG	200
5	CAGTGTTCTG NNNTTCTTCT CTANCTGTCT GCCCTGAGTC CCGGACC	247
	(2) INFORMATION FOR SEQ ID :416:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 162 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :416:	
20	TCTAGCACAC AGCTGCGCTC ACAAAAACTG CGCGACTTGT TAGAACTAAT	50
	TGAGTGGAGC CTGCAGGTGA GGGGAGGGAG GGGCTGCAGG TCAGGTAAGA	100
	TCTGGAAGAC AACGCACACT TGAAGGGCAG GGGACTCTAA GCAGGGATTT	150
25	ACATTGAAAG GA	162
	(2) INFORMATION FOR SEQ ID :417:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 109 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :417:	
40	CAGAAGAAGG AGAACTCATG ATTCCAGAGA GCTTTGGGGC TTATTTTTAA	50
	GTACTTAGCA AAATATTTGT TTTNCGTGAT TTAGCTTGTC ATTAAACNAA	100

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	GAGCTACTG	109
	(2) INFORMATION FOR SEQ ID :418:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 202 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :418:	
15	GGATGTAAAT TATATGTTGT TTAAATTTTT CCAGCATCTG AAAACCTTAT	50
	CTGCTAGACA ATGCAAGATT CACACAGAGT TATCTGGGAT TCTGATTTTT	100
20	TAAATAGTAC ATATCATTAA ACCATTCNTT CTAAANGTAA GAAGAGCAGA	150
	AAAAATCTTA TAAGATTATC AGATTTTCCT AATGACACAG AAATGNAAGA	200
	AA	202
25	(2) INFORMATION FOR SEQ ID :419:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 152 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :419:	
	TAGCAAATGT GGATTACAAG CAAATACAAC AAGTCGTGCC CCTCCAACCC	50
40	ACCACAAACT TCTAAACGCC ACTCAGCAGA TGCATAGGAT TCGTTACACG	100

CAACGATTGA AATAAAAATA AAAGCTNCAA ATGCAATACC CANACTAGCC

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150

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	·· TA	152
	(2) INFORMATION FOR SEQ ID :420:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 218 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :420:	
15	CAGCCCTACA CTCGCCCGCG CCATGGCCTC TGTCTCCGAG CTCGCCTGCA	50
	TCTACTCGGC CCTCATTCTG CACACGATGA GGTGACAGTC ACGAAGGATA	100
20	AGATCAATGC CCTCATTAAA GCAGCCGGTG TAAATGTTGA GCCTTTTTGG	150
	CCTGGCTTGT TTGCAAAGGC CCTGGCCAAC GTCAACATTG GGAGCCTCAT	200
	CTGCAATGTA GGGGCCGG	218
25	(2) INFORMATION FOR SEQ ID :421:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 237 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :421:	
	GATGCCAATG TTTCATCCAC CGGCTGCACA GGCACAAACT CCCCCACCCA	50
40	GGACGACTGT GATGAGGTGG CCCTCCCTGT CAACCCTGGT CCCTGGAGTC	100

CCCAGCACCT GGGGCCCTGA CGGTCTCGAT GTCACAGGCG CTTACTGTGC

	TGCTGGCTGT CCTATGCCAG CCTCACCCAT GTGGGGACCA CGNAAGGCAC	200
	ACTCCCTCAC CCCGGTGCCG GGCCGTGCGA TCCCCCA	237
Ś	(2) INFORMATION FOR SEQ ID :422:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 202 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15 .	(xi) SEQUENCE DESCRIPTION: SEQ ID :422:	
	AGGNGTAATA AATACTGCAT CCTTTCCACA ACATAGCAGG AATCTTATAG	50
20	GGAAATCCAT ATAGTTTCTG AACATGTATT NATATACTAA GTCTATATTG	100
20	TTTCTTTACG AAGTGTAAAT AAGTGCTGCA CCATACTGTA AACAAAACTC	150
	GAATATTGAC TAAATAAAAT CAAAAGTTCA TCTTGTAGTC ATGTCTTTCT	200
25	cc	202
	(2) INFORMATION FOR SEQ ID :423:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 216 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :423:	
40	GGGACACCAT TACCATCCAT TGACATCGCA TTTCCATAGA AATGCCAAAG	50
	AAAGAAGTCC TGGGGTTTTT CATAGAAAGC TCAAAAAGTT CAACCTTTCA	100

	••	TGCTATCCCC CAGCCCAATA CAAAATACAC AAAAAAGCAA TTATCAAAAT	150
		ACTGACTTCG GTTTCTTTTT CTCTTCAAAT NCCTATAATN GCTTTACATA	200
٠5		TTCGTATCAG CACCTA	216
		(2) INFORMATION FOR SEQ ID :424:	
		(i) SEQUENCE CHARACTERISTICS:	
10		(A) LENGTH: 168 base pairs	
		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
15			
٠		(xi) SEQUENCE DESCRIPTION: SEQ ID :424:	
20		CGACGAAGGG AGTACTCGCG CTTTGTCTCC CTATCCACAC TTGAGCAAAT	50
20		GCTCGCTGGT CTACTGCCAA AACCCATTTC ACCAACCATA TGTCCCTCGC	100
		CCATACCCCC TCTCCCTCTC AAACCCTGGG GACAAATTCA AGGACCCAGG	150
25		GGTGCCCTTT TAAAAAAA	168
		(2) INFORMATION FOR SEQ ID :425:	
		(i) SEQUENCE CHARACTERISTICS:	
30		(A) LENGTH: 258 base pairs	
		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
35			
		(xi) SEQUENCE DESCRIPTION: SEQ ID :425:	
40		TCGCAGGAGA AGGAGTCGCT TACTATGCAT CCAAAGGCTA CCGTGGTTAC	50
40		TCCTATATGA CATTCCAGAT TTTGATGACT AGCACCCACC CCACAGCTGA	100

	 GAGGAGTCAC AGTGGAACTT CCCAGCTTTA AGATATCTAG CAGAAACTAT	150
	AGCTGAGGAC TAAGGAATTC TGCAGCTTGC AGATGTTTAA GAAAATAATG	200
5	GCCAGATTTT TTGGTCCTTC CCAAAGATGT TAAGTGAACC TACAGTTAGC	250
	TAATTAGG	258
	(2) INFORMATION FOR SEQ ID :426:	
10		
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 275 base pairs	
•	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :426:	
20	TCCACATCAT CTCCAAAGCC CATAGGCCGA GAAATGGCAT CTGAGATCTG	50
	CTGGGCCACC TCCTGTTGTT CCGTATGTCA GTCATCAGTT CATCTACCTN	100
25	GTCAATGTCC ATGTCCTGGT AGGCCTTCTT CATGCTTTGN CAGCAAGCTC	150
	CATGCACGAA GGACTTCTGC ATTGGTAGTG GCATTCTCAA TAGCCTCACG	200
	Chiquadan Conditional Milatinate Confidence incomme	
	CTGAAACTCC AGGGTGGATA ATGCCCCGTC AATTTGTGCC AGCTGCTGTT	250
30		
,	CGAATNNTTT TCTTTCTCGT AAAGC	275
	(2) INDODUMENTON DOD CDO ID . 422.	
	(2) INFORMATION FOR SEQ ID :427:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 162 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :427:	
	CTCTGTGCCT CGCTGAGGAA AAATAACTAA AATGGCAAAG AAGATCCTAA	50
5	GAAGCCGAGA GGCAAAATGT CATCATATGC ATTTTNTGGC AAACTGTCGG	100
	GAGGAGCATA AGAAGAAGCA CCAGATGCTT AAGTCAACTN TAAGAGTTTT	150
10	CTAAGAGTGC TC	162
10	(2) INFORMATION FOR SEQ ID :428:	
	(i) SEQUENCE CHARACTEL_STICS:	
	(A) LENGTH: 220 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOCY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :428:	
	(XI) SEQUENCE DESCRIPTION: SEQ ID :428:	
	ATGCAGAAAA GGAGTCGTGA GCGTAACACC CTCGCTGCTG GTCATAAAAC	50
25	CCATAGTTCC TGAACTCATC AAAGAACTTA ACTTCCTGAC GCCAGATATC	100
	TGCCATGCGC GAAGGGNTGA TACCACTCAG GATTATGAAT TTTGTTTAAA	150
	1000110000 GANGGERIGH INCONCIONO GAILAIGHAI IIIGIIIAAN	130
	GTCGNGTTTA CAATGATTTG NCCTGGACTG AAATTCANGC TGCCTTAAGG	200
30		
	TGCTGATGAT ATTGAGAAGT	220
	(4) THEORY TO TO TO 100	
	(2) INFORMATION FOR SEQ ID :429:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 185 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

	(x1) SEQUENCE DESCRIPTION: SEQ ID :429:	
	GACTCATCTT GCCCAAGAAG AGCCAGGATA TGAGAAGATG GGAGAGGGAA	50
5	GGGGAGGTGT GAAACGTGCT GGTGCTTCCT GTCCTCATGG TGTGATGGCT	100
	GCCCAGGCTG CTCCTTCGAG GCAGGACAGG ATTCCCATGG GACATATGAG	150
10	GACCATGGTG ATTTCCAGGA CCAGTTATGT CCAGA	185
	(2) INFORMATION FOR SEQ ID :430:	
	(i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 277 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :430:	
	GGGATGCCCT GACCTGATGG CCCTTGACCA ACATGGTGCT GGAGGAGCAC	50
25	TACCTGGTCG TGGGAGTAGT GGTCATCGTG GACCCAGGGG TGATCCCTAT	100
	CAACTCTTGG GGTGAGAAGC AGCGCATGCA CCTGCGGGAC GCTTCCTGGC	150
30	TGACCAGCTG GACCCCATCT AGTCGCCTAC AACAGCGAGC CAGCACACCG	200
	GCCCAGGTGC CGGAGATGAA TGAGCCCCAG CAGTCCAAGG TGTGATGTGG	250
	GAAGACACCG CAGAGCTCAC TTACCAA	277
35	(2) INFORMATION FOR SEQ ID :431:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 125 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

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	(xi) SEQUENCE DESCRIPTION: SEQ ID :431:	
5	ARAGTGCGCT TGGGCATCCT GCCAGCCTGC CATGTCTTCA TGCGCTGGTC	50
_	GAAGGCAGCC NGGACTATGG CCAGGAGGCG AATGTAGTCA CTCAGGAGCT	100
	CAGCAAGGAG GAAGAAGTCA TTGTT	125
10	(2) INFORMATION FOR SEQ ID :432:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 222 base pairs	
	(B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :432:	
	GCCTAACTGT CAAAGCACAG AAAAGTTAAC AAAGGGTGGG ACTCGCCATT	50
25	TCGAAATAGC ACATTTTTAG CAATAGGCTC TCTACACTAG AGAGCCAGTA	100
	GACTGATATT CTTTAATGCC AGTTTCCTAG TTAATCGTAA AGATAGACAC	150
	AATTCCCCCC TTTATAAAAG CTTCTGTCGT TTCACATAAT GACTTTAACT	200
30	ANAANGGAAA TGGGGCAGGA CA	222
	(2) INFORMATION FOR SEQ ID :433:	
	(i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 213 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID :433:

	CCATGNCGGC CCCCAGGTCC TCGATCTTTT CGAGCTGACT TCTCATGGCT	50
	CGATTTCCTG GTGCTTGGTT TGGTAGCTTC AAGCTGGGAT TCGAGGGTCC	100
· 5	CCGACTNTTC CACCATACAG GACCCATCGA GGAGGCATGT TCTGGTCTNT	150
	TGGATCCACT GGTGGAAGGG TTGCGCGCTG GNCAAACTGT TGGTNTAACT	200
	NGNCGTTTCC TCT	213
10	(2) INFORMATION FOR SEQ ID :434:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 221 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :434:	
	(XI) SEQUENCE DESCRIPTION: SEQ ID :434:	
	CCATGNCGGC CCCCAGGTCC TCGATCTTTT CGAGCTGACT TCTCATGGCT	50
25	CGATTTCCTG GTGCTTGGTT TGGTAGCTTC AAGCTGGGAT TCGAGGGTCC	100
	COMPTONIO CICCITAGII IGGINGCIIC ANGCIGGGAI ICGNGGGICC	100
	CCGACTNTTC CACCATACAG GACCCATCGA GGAGGCATGT TCTGGTCTNT	150
	TGGATCCACT GGTGGAAGGG TTGCGCGCTG GNCAAACTGT TGGTNTAACT	200
30	100MICCACI GGIGGRAGGG IIGCGCGCIG GNCARACIGI IGGINIAACI	200
	NGNCGTTTCC TCTGCCGGTG T	221
	(2) INFORMATION FOR SEQ ID :435:	
35	(i) SEQUENCE CHARACTERISTICS:	•
	(A) LENGTH: 70 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

	(xi) SEQUENCE DESCRIPTION: SEQ ID :435:	
	ACACTTGATA CTATGCATCA AAGGACGTGG AGAACTAGAG CGGGCTACAT	. 50
5	TAGTATATTT TCGTTGTCAG	70
	(2) INFORMATION FOR SEQ ID :436:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 163 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :436:	
20	AGTACGCAAT GCTTTCTTAC AGTAAGCAAG AGCTCCTCTG TAATCCTTCT	50
	CGTTGAAGGA AATGCAAGCT TTACCAAGAA GGGCTGGAAT ATTATTCGGA	100
	GACTGATTGA GTACAAAATG AAACTGTGCG TCAGCTTGAT CCATTTTGTC	150
25	ACCCTCAAGT AGG	163
	(2) INFORMATION FOR SEQ ID :437:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 170 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :437:	
40	TGTGGCTGAT CATAAGAAAG GAGCAAAGAA AGCTAGAATT GAAGAAGATA	50
	AGAAGAAACA GAGGACAAAA AAACAGACGT TAAGGAAGAA GATAAATCCA	100

	AGGACAACAG TGGCGAAAAA ACAGATACCA AAGGAACCAA ATCAGAACAG	150
	CTCAGCAACC CCTGAATTTG	170
· 5	(2) INFORMATION FOR SEQ ID :438:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 187 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :438:	
	AGAACTACAG AAACCTGGCC TCCCTGAGTT TATCCTATGG GGGGCACAGG	50
20	AAAGAGCCCT GGACCATAGA AACCAAGTAC GAGTAGCAAG AAAACCAAAA	100
20	GGGTGGGAAT GGATCAAAGG TGTGAAAACA GATCTGTCTC GTAACTGTGT	150
	AATCAAGGAA CTAGCACCAC AACAGGAAGA TAACCCA	187
25	(2) INFORMATION FOR SEQ ID :439:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 234 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :439:	
	AAAAGCAACC AGGTTCGAGA AACAATAGTG TATGTGTTCC TATAGGTATG	50
40	AGTTATTCAN TGTAGATTCG TTTTTCTGCA ATCCTCTGCC GAAATGATNT	100
40	ACACTTACAA TCNNCAATCC CATACCACAC TACAATCTCA ATCAAAACAC	150

	TCGCGTCTGA AATGNTNGTG TGGTAGACCA CCCCCATTCA AGCCTTCATA	200
	CTTCGTAAAA ATGCAAATGT TGAAGATCGN NTCT	234
5	(2) INFORMATION FOR SEQ ID :440:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 203 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :440:	
	GGACCAGGAA CCTAACTGAG ATAAGTTCAG CTTTCCAGTT GACACCAAGT	50
20	CATCTAGTCT TCCCGGAGTA GATATAGTTG AGGTACTCCA TTTCCCAAAA	100
20	CAGAGAGCTG ATCCCGGGCT GCAACACCTC CAATAGTCGA AGCTCCCTTA	150
	ATNAAGGATA TCAATGTATT TCTTAAACGC TTGATGTCGT TCAAAGTCTG	200
25	TTC	203
	(2) INFORMATION FOR SEQ ID :441:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 254 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :441:	
40	GTGATGCACC TGACATCCCC TCACAGGCTC TTGGAGAACT GTAGTGCAAC	50
40	TCACTTAACC GCAATGCTGA GAGCAGAATT CTGGAGTATG ATCCAGGGGA	100

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•	ACGTTTCCCC ACACCACCCG AGCTACTTTA CCAGCGATCA TGATTGTGAT	150
	GGAATAGGCT TATTAAGTTA CACATTTAAA AAGTCATTAG AACATCTCGT	200
5	TCTTGCACAC TAGTGTAGAA AGGTCTTCCA AAGATAAAAG GTGTAGGCCT	250
	GGTT	254
	(2) INFORMATION FOR SEQ ID :442:	
10		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 147 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	• /	
	·	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :442:	
20	GGGGNGCTAG CAGTTGGGNG GTGTAGGAGG CATTGCTGAT GATCTTGAGG	50
	CTGTTGTCAT ACTNTTCANG NNNCACACTC ATGACGAACA TGGGGCATAG	100
25	CAAGGGGCGG ANGANGACCG TTTNGNTTCC TTGAAANGAG CCCCAGC	147
	(2) INFORMATION FOR SEQ ID :443:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 198 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :443:	
	GGGGNGCTAG CAGTTGGGNG GTGTAGGAGG CATTGCTGAT GATCTTGAGG	50
40	CTGTTGTCAT ACTNTTCANG NNNCACACTC ATGACGAACA TGGGGCATAG	100

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	CAAGGGGCG ANGANGACCG TTTNGNTTCC TTGAAANGAG CCCCAGCTNC	150
	TCCGNGNGAG ACGCAGTGGA CTNCGATGNT TAGCNCTAGT NNCCCGCT	198
5	(2) INFORMATION FOR SEQ ID :444:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 208 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :444:	
13	(XI) SEQUENCE DESCRIPTION: SEQ ID :444:	
	ATACTACGCT AGGAGAACAA TGTTCCTACA TATTATGGGT AGTGAGACAT	50
20	TATCTGTATA CAGGGACTGT GATTATTTAA AATATGCAGA ACTTATTTCA	100
	TCTGTGCTTT AGAAATAACT GTATACAGTG TTATAAGTGA AAGAACTCAA	150
	AATAACTAAT ACCAAATATA CACCTATGTA TTAGAATTCA AAAAGCTGCT	200
25	TTCTGTGA	208
	(2) INFORMATION FOR SEQ ID :445:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 168 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :445:	
40	AGCACATTTC ACTACGGGNT ATGTGCATTC TGGGCTTAGT AATGTCAAAT	50
	CACTCTTCTC TCCAGCTTGG CCATTCCTCA TTCCTTGCGG GCCTGCCCTG	100

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	TAGACCACAG GCTAATGGAA TGTCCCGGTC TGNGTCATCA NATTCTGTAA	150
	CCTGNAGCCC CCGCTGAG	168
5	(2) INFORMATION FOR SEQ ID :446:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 243 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :446:	
	AGGCAGAAGG GACGCTACTG ACTTAAGCCA AACCCTGATT GGTGGATAAA	50
20	GTATTCAGTT GTTCCATTCA TGCCTATCCT TTNTACAGCT CTCGCGACTA	100
	TAACAAACAA CTGATAAAAT AGCATCAGTC CCTCCACCAG GTTGCCCTCA	150
	AGGAAGCCAT GTTTGTGACG ATCCGACCAG TCCCTGACGA TCTCTCTAGA	200
25	CCACCCTGAC CTCGCCGAGA GTGCTGAAGG AGCTATCTAA CCA	243
	(2) INFORMATION FOR SEQ ID :447:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 251 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :447:	
	CAGTCAGGGT CACAGAACAG TATTCAAAAT GATTGCCCAC CTGTTTTAGA	50
40	AATCTAAAAT NNTAAGTAAC TAAGAGCAAA GTGCTATGTG GGTTTTAGAC	100

	CATGACTGTT TGTTTGCTCT CCTGCCCTAC CACCAAGCAA AGCAGCAGGG	150
	CTCCTGGGGG AGAGGGATTT CAACCCCCCT GATGGCAGGG GGTGCTCTGG	200
5	GGAGGAGAGA GGAGAGAACA GGCTGTTTTG GAAAATATCC AGCACTTTGA	250
	c	251
10	(2) INFORMATION FOR SEQ ID :448:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 253 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :448:	
20		
	ACACTCCAGA NCATCCCACT AGAAAAACAA TINNGCAGGA ACGTGATGGC	50
	AACAATCAGC AGCCAATATT CTCAAGAGTT CCTAATCACC AAAAACATAT	100
25	ACAATNTAGT CTAGAAAAAT AAGTCAATTT CATAAAATAA GTTTTTAGAT	150
	Similar Sillingsi	150
	CGAAAAGCAC CCCCTTCACA GGTACAGAGA TACTGAAAAA TAGTCCCTAA	200
30	AAATCTACTC ATAGTTTACG GAGAGAAAGG CATGCCATGT GAGTTACGGA	250
30	GTG	
		253
	(2) INFORMATION FOR SEQ ID :449:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 113 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :449:	•
	ATATAAAAA GATCCGCATA ATAAACCAAA TCAGAAAATA ATACCTTGTA	50
5	ATACCTCTGT AAGAAGCAGA ATACACCATA TGTTATTCAC ATGTATAGGA	100
	GTGATAAGAA AAT	113
10	(2) INFORMATION FOR SEQ ID :450:	
10	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 211 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li></ul>	
15	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :450:	
	TAGCATCCAG GGGAAGTTAA TCAATACGCG AAAAATACTG AAATTAAAGA GACAAGTAGA AGAAAATGAA ATAATCAAGA GATTGAGAAA AGTTGCCAGA	100
25	AAGCTTGGAG AAAAACCAAG ATATGTAATT TTCGCAGAAG TCAAAGGTAG	150
	AAACTATTTG AGATCAAAGT CCTATAAACA AAGTTAAATG ATTCCAAGAG	200
30	GTAAATAGGA G	211
	(2) INFORMATION FOR SEQ ID :451:	
35	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 194 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :451:

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	CTCCATTAGC TTTATGGGAC ATACGACGCA TAAAGATACT NTCCCGTGCG	50
	NATITCACAC NIGNCAGAGC TATAAACCGG IGNAIGAIGI GATITINCIG	100
· 5	TAGAATGATA TGGCCTGATA TGGAGGCCTC TTAATNGGCT TTTTCAAGCA	150
	GCAAAATGGT CTTGNGTGAG TCGTGCCGAG GCTNNNGATC AAAG	. 194
	(2) INFORMATION FOR SEQ ID :452:	
10		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 168 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	A The angular properties and the AFC.	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :452:	
20	ACTICAAGCT CAACCTATTC TCGTTCTCTT TGTTAGAGGT GTATTGAGGA	50
	ACTIONNOL CHACCIATIC TOTTOTOTI TOTTAGAGO	30
	TAGCATATTG AGAATATATT CTCTGGTTCA AACCAAAGAT TTTGTGACAT	100
25	TAAAACTACT TGAATTTCTA CTTCATAATA GGAGTCAGTC ACTTCTGGGA	150
	CTATAGTGAT GCTTGCAA	168
••	(2) INFORMATION FOR SEQ ID :453:	
30	(i) CROHENCE CUARACTERISMICS.	
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 220 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(5)	
	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :453:	
40		

CGATTCTTGC CCTAGTCAGA GACTATAGCA GCCCCCAGAC GTGAACCAAT

	TGGCCATCTC CAGAAAGTTT AACAAAACCC GACCAGGTTG CCCCCTTCAC	100
	TTTCTTACAA CCTCTTCCCC TTCCCCAGGG GCTCTGCTCC TCACTCCAGA	150
5	TCATCCTTTA GTTTAGAGCT GCGCAGTGAA GTGGATATCA CTGAAGGAGA	200
	TAGGACGCCA GACTACACTG	220
10	(2) INFORMATION FOR SEQ ID :454:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 275 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :454:	
20	GCCATCCTTG ATGGAAAAGA AACTGAAGAG AAAAGACAGC CTGTGGAAGA	50
	AGCTCAAAGG TTCTTTGAAG AAGAAGAGAG AAAATATGAC ATGATATCTT	100
25	TGCTTTTGAG TTCCTCACGC TCTCTGAATN TTATTGGTTG GACATTCCAT	150
	ATGTAGCATT CTGCTTCAAT ATTATCTATT ATGTGTCTCT CTCTCTTCAA	200
30	ATANNTGCCT GTAGGTAAAA GCAAGCTCTG CATATCTGTA CCTCTNGAGA	250
	TAGTTTTGCT TTGTCTTTAG CGGTT	275
	(2) INFORMATION FOR SEQ ID :455:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 270 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	. 240	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :455:	
	TCGCAGAAGG AGGAACGGGG ACTTTCCATC CCCTGAACCA AGGCATGTTA	50
5	ACACTTGGCT CCAGCATGTT GTCATCATTC AACCAGAAAT CGCACAAATG	100
	CTACTGTGCC GGGGTGNAGC CAATTTTCTT AAGTAAGTGC TGACTTCCTT	150
10	AACANNTATC INTITITING CIGTAGGGIG GCTCAGIGGA ATCCATITIG	200
10	TTAACACCGA CAATTAGTTG TTTCACACCC AGTGGTAAGC CAGAAGGGCA	250
	TGCTCTNGGG TCTGCCCATT	270
15	(2) INFORMATION FOR SEQ ID :456:	
20	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 254 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :456:	
	TCGCAGGAGA AGGAACCTTG ATGATACCAT TATCCTCACT TAGATGATGC	50
30	ACGACCCCTG CGCTGGATAC GGCGACGGTT TCTCATTTCG CCTTTGCCAG	100
30	CTCTCATTCG CTGAGGGGCA TAGACCTTTT GATATCATCC AGGCTTTAGT	150
	TTCTTAAGGA GCAAAACAGC TTCCTTGNNC TTCTTGTAGC CTTCAACTTA	200
35	TTTAAACTAC CAAGGAAGTT CAGGAACTTC CTCAANACGA TGACCTTTAG	250
	ACAT	254

(2) INFORMATION FOR SEQ ID :457:

40

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 236 base pairs

241

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
-		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :457:	
10	ACACTAACTG TTCCATCCGT TATATTTGCT GTGAGGAAAA TTAAGATTCC	50
	TGTTGTATGG GCTGCACTGT TTCTGGAAGA CTACAGAAAA TCTAACATGG	100
	TTGACACTTC CTGGTAGCCC TTCTGTACAT ACACACACA AACCAAGAGA	150
15	GAAGACAGAG AGAAAATCCT GGTCCAAAAG ATCACATGAC CTTACTAGTG	200
	TTTCCCCAAT GACTGTAATT TATAAACTAA AAATTG	236
20	(2) INFORMATION FOR SEQ ID :458:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 108 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :458:	
30	GAGANNNNTT NNGGNAAATG NTTNCGCACT GNAGCTAAGA ANAGNNATGG	50
	NNNTAGGGNG NNAGANGNCN TGAACAGAGA AAGCNTGAGG GCTCTGGGAC	100
35	GCTGGTAT	108
	(2) INFORMATION FOR SEQ ID :459:	
	(i) SEQUENCE CHARACTERISTICS:	
40		
	(A) LENGTH: 155 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(-/	

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## (D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :459:	
	ACCCATGGCA AATAGGAAGA AGCTCAGTAT CGGCTCCTCC CACCATAACC	50
10	CCCACTTCTC CCGCCTCCTG GACCATAGTT TCCTCCACCA TACGGTCCCC	100
10	CCATGTTCCT GCTACCACCA AAGTTTCCAC TCTCCATTGG ACCGTAGTTA	150
	GAGGT	155
15	(2) INFORMATION FOR SEQ ID :460:	
20	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 169 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :460:	
	TGCTATTTCC CTTTCATAAA GGCACACATT TGATCTTATC TTCTCTTACC	50
30	CAACACGCAG TGGCAGTGTG TATTTTCCTT CTCTTTTTTT GTTAAATATT	100
	CTGGTTTGTG GAGGTTCACA GACATGTGTT AGTATATCCT TGCCTGCATG	150
	TAGTTGTTCA TTACTAGAC	169
35	(2) INFORMATION FOR SEQ ID :461:	
<b>4</b> 0	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 184 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	

	(X1) SEQUENCE DESCRIPTION: SEQ ID :461:	
5	ACCNTGTTTA ATTANTGCGC GGGCTCGCCG TTTGCATACA ATGGCTTACT	50
	CAGTGCTNNC AGGCTGTGAG TNAATAGAGN GTGTATGACT TAATAAGCAT	100
	TTTATCAGCG TACCTTTTTC GCCATGCGCT ACCTGCTATT GATGAAGGCG	150
10	GCTTAGGGCA TCGAAAAACC TAAAAGTCGA GCTT	184
	(2) INFORMATION FOR SEQ ID :462:	
	(i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 275 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :462:	
25	AGGAACCNTG TTTAATTANT GCGCGGGCTC GCCGTTTGCA TACAATGGCT	50
	TACTCAGTGC TNNCAGGCTG TGAGTNAATA GAGNGTGTAT GACTTAATAA	100
	GCATTTTATC AGCGTACCTT TTTCGCCATG CGCTACCTGC TATTGATGAA	150
30	GGCGGCTTAG GGCATCGAAA AACCTAAAAG TCGAGCTTNG NNGTGCCGGN	200
	AACGGCTCTA NANTACTTCT CATTGTAACT AGAGTACCAT ATTCGGCCGT	250
35	NNACTGNGTT GTTGGCGACA GATGT	275
	(2) INFORMATION FOR SEQ ID :463:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 149 base pairs	
40	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :463:	
5	AATTCACTAT GCGTGGCCGC CACAGCTATN CTTGTCCTCC TGGATCCTGA	50
	ACCTTGNAAG CTGCACTAAT GAGTTCAACG GGAGTGCTCT GGGCCCAGGT	100
10	GTCAGCTGTA GCAATGCCCC NGCTGCAACT GAAGGNGCCA GCAATGCTA	149
	(2) INFORMATION FOR SEQ ID :464;	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 179 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :464:	
	ATCATCAGCA GTGTTGCTCA GCTCCTACCT CTGTGCCAGG GCAGCATTTT	50
25	CATATCCAAG ATCAATTCCC TCTCTCAGCA CAGCCTGGGA GGGGGTCATT	100
	GTTCTCCTCG TCCATCAGAT CTCAGAGGCT CAGAGACTGC AAGCTGCTTG	150
30	CCCAAGTCAC ACAGCTAGTG AAGACCAGA	179
	(2) INFORMATION FOR SEQ ID :465:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 156 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		•

(xi) SEQUENCE DESCRIPTION: SEQ ID :465:

	CTACCTCTGT GCCAGGGCAG CATTTTCATA TCCAAGATCA ATTCCCTCTC	50
	TCAGCACAGC CTGGGAGGGG GTCATTGTTC TCCTCGTCCA TCAGATCTCA	100
. 2	GAGGCTCAGA GACTGCAAGC TGCTTGCCCA AGTCACACAG CTAGTGAAGA	150
	CCAGAG	156
10	(2) INFORMATION FOR SEQ ID :466:	
10	A CONTRACTOR OF THE CONTRACTOR	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 186 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	· ·	
	∢	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :466:	
20		
	ACATCCCTGG AAGGAGGGCC TGAGGGCCAG GGAGGGAACA AGGCAGGAGA	50
	CTGCTGGTTC TGGTTTTGGC CACCTCACCC TTGGCCACGT CCCCTCCGGC	100
25	TAAGCCACAG CACAAAGCAG AGCCAGGCTC TGGAGGCCCA GGGCCTCACC	150
~~	INDUCATE CHANNACIA NACEMBEIC 180000CCCM GOGCCICMCC	150
	ACTCCCCTNT GTCCCCCCAG CAGGGGGACA AAACAG	186
	(2) INFORMATION FOR SEQ ID :467:	
30		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 87 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :467:	
40		
	TNNNGATGAN TATANAAGCA TCATNGACGG TATTTCCCNG TCTTGNANTT	50

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	TNATCGAGAN TTTANTCTAG TAANTATATT AATNTNT	87
	(2) INFORMATION FOR SEQ ID :468:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 187 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :468:	
15	ACTAGAAGTA CAGCATCCTG CTGCAAAAAT GATTGTAATG GCTTCTCATA	50
	TGCAAGAGCA AGAAGCCGAG ATGACACAAA CTTTGCCTGG TATTTGTTGG	100
20	AGCTCTCCTG GAATCACTGA AGAACTTCTG AGGATCGGCC TGTCAGTTTT	150
	AGAGGTCATA GAAGGTCATG AAATAGCCTG CAGAAAA	187
	(2) INFORMATION FOR SEQ ID :469:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 256 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :469:	
35	AGGGCACCAT TACCATCCAT CTGACATCGC ATTTCCATAG AAATGCCAAA	50
	GAAAGAAGGT CCTGGGGTTT TTCATAGAAA GCTCAAAAAG TTCAACCTTT	100
40	GATGCTATCC CCCAGCCCAA TACAAAATAC ACAGAAAAAG CAATTATTAA	150

ACATCGGCTT CGTTTCTTTT TCNCCTTTGA ATNTTAATGT TTACATACTA

	GTGTGCAGCA CCTACTTCTT NATCGCCGTG AACTGAAATC TAGATTTTAA	250
	ACTGAA	256
5	(2) INFORMATION FOR SEQ ID :470:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 109 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :470:	
	CTCAAAACGA CAATTCTGTG CCTGGGGGGAT CTGACCTGGT GAGGTAGCCT	50
	GAAGTCTGAA TGGAGCCCAT AGTCGAAAAC AACCTAAGAA TCTCTCAGAA	100
20	GAGGGTTTG	109
	(2) INFORMATION FOR SEQ ID :471:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 139 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :471:	
35	GCGGCAGTAT ACAGAAGCCA TATCAGTTGG GAAAAACTTT ATCAATCATA	50
	GAGCCTTTTG AAGAAAAATT TGCCAAGCGT GGTTTTTTGC TTGNAGACCT	100
40	ATATATATA CCTACAGGCT GAGAAAGCTT TGNATTTCT	139
	(2) INFORMATION FOR SEQ ID :472:	

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(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 262 base pairs(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	•	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :472:	
10	TCGCAGGAGA AGGAATGTTC CCAATAGGAA CGCCTGTAGA CTGTTCAGAA	50
	TEGENGGRAF AGGANTGITE CERMINGGAN COCCIGINGS CIGITERGAN	30
	GAAATGCCCA AATGAGCCAG ATGAGAAGGC TGAGGGCAGG GCTGCTTTTG	100
15	GCTCTGAGGA CTATAGATTT ATCCTCTAGG TGATGAGGGA CTATTAACGG	150
	CTGGTGAGTC TGGAGAACTG AACAGTGGAA GCTCTATTTT AGATTCACGT	200
20	GGCAGTAGAG GATAGAGGTG TTTGGAAGCG GTGGGCAGTT GCAAGCTATA	250
20	TGGGAGACAT TT	262
	(2) INFORMATION FOR SEQ ID :473:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 189 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :473:	
35	ACAGAAGGAC TITGTCTCTT TAGCTTGTTT AGCTCAATGA ACATTATCTC	50
	GGCAAATGAC TCTGCTTTCT CGAAGGTCCT TCTCCGCTCC AGGTTTACTT	100
	GCATCTCTCA TACTINNTAC AGCCAACATG AACACTCTAT GTATTTTCTA	150
40	Indiana noonana nanatana diniiitidin	130
	AGCTTTCNTC TGTTCAAGAA CTTTGAATTT AAAACGTCT	189

	(2) INFORMATION FOR SEQ ID :474:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 166 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :474:	
	TNCGTGCCTA GCAAACTTAA ACTCGAACGC ACGTAATAGT GCTCATAATT	50
15	CTNTNAAGGA CTTTAAACTT TACTCNGTAT GCTNTNTTGA TGACTCTAGC	100
	AGCCTCGCTA ACCTAGTTTA CCCCACTGTC CCCACCGGCG AACTNTTTGT	150
20	GTTAGTACGC GNGTTA	166
20	(2) INFORMATION FOR SEQ ID :475:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 109 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID :475:	
	TTTTTTTTTA GTAACACTAA AGAGCTGTAA AGAACATTGA AGGTGGTCAT	50
35	TCCTTCAAAA CTGTGTTTTG ACCACACAAG GTGGGCATTA ACAAACAAAT	100
	TCAACTTAA	109
40	(2) INFORMATION FOR SEQ ID :476:	
40	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 131 base pairs	

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(B) TYPE: nucleic acid

(C) STRANDEDNESS: double (D) TOPOLOGY: linear 5 (xi) SEQUENCE DESCRIPTION: SEQ ID :476: TCTGGGCGGA AGGTGGTGCG GTGAAAGGTG CAGGGACAGA CTGGGTTAGA 50 10 GGCCACTCTT GGTCTTATCC TCCATGGCCA CAACAGAGGT GACAAATACA 100 CGGGTCACTC AGTTACGTTT AGCCACAGCC T 131 15 (2) INFORMATION FOR SEQ ID :477: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 265 base pairs (B) TYPE: nucleic acid 20 (C) STRANDEDNESS: double (D) TOPOLOGY: linear 25 (xi) SEQUENCE DESCRIPTION: SEQ ID :477: ACATGGATAG GTGTATGCAT ACTACGGCTA AGGAGAAACA ATGTTCCTAC 50 ATATATGGGT AGTGAGAACA TTATCTGTAT AACAGGGAAC TGTGATTATT 100 30 TAAAAATATG CAGAACTTAT TTCATCTGTG CTTTAGAAAT AACTGTATAC 150 AGTGTTATAA GTTGAAAAGA ACTCAAAATA ACTAATACAA ATATACACTA 200 CGTATTAGAA TTCAAAAAAG CTGCTTTCTG TGAAGTCAAT CAGCTATATT 35 250 AAAAAAGACA CAAAT 265 (2) INFORMATION FOR SEQ ID :478: 40 (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 182 base pairs

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(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :478:	
10	AATCTACCAA CCTTAAAGCT CCCGNGATAA AGCTGTATTT CCAAAAGACC	50
	TGTNTTTATT NGNNGGNGTT NGCTTTCTTT GTCATCTAGA GCCTTGTTGT	100
	ACATGCAATG GGTGGGAGAT AGTGGTACCT ACTGTTGNTT CTNTCTGTGT	150
15	NTTCATCATG GTGTTGTCTA GGTCTCCTGA GG	182
	(2) INFORMATION FOR SEQ ID :479:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 169 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) Torobodi: Timear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :479:	
30	AAGCCGTCGG GAGCCGCCGC CGCCATCTGA GGGAGGTACC CTGGAAACCA	50
	CCTTTCACGG TGGGGAAGTG CAGTCGCGGT GGGCAGCTCT GGGGCCACGA	100
	AACGGGAGCC TCTAAATCTT GGTCGGGACT GCTCGCCTGG AGCCGCACTC	150
35	TTGAGTCCGA GGCCATCTT	169
	(2) INFORMATION FOR SEQ ID :480:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 238 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

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(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :480:	
	AGATAACGCT CCCATCCCAG GCTAGAGACT CCATCTCTAA TTTNCNCAGT	50
10	CCGTCAATGA GAGGCAGGGA CTGAAATCCC AAGTTCTGTC TCACCGGATA	100
lo	TTTTCCAGGA ATGCCTCTCT TCCAAACATC AGCGACATTT AACAGACCCT	150
	GAGCAGCAAA CTTCTGCCCC AGAGGAAAGC AGAAAACCAA TTTATGTAAA	200
15	ATTAGAAGCG ATTTGCTTGA TCCATCACTN GCTTCCAC	238
	(2) INFORMATION FOR SEQ ID :481:	
20	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 201 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :481:	
30	TCGCAGGAGA AGAAATCAAC CCCTGCTTCT CAAATCCAGA CAGGCCACAC	50
,,,	TGGCTAGAAC TTCCACCCAG CAGTCCTGCT CCTGCCCGAA GTCTGCAAGC	100
	AAGTGAACCA CATGTCGCTA TGAAAGCACA CAGACAACAG ATTAGGGCAG	150
35	ACCTGGCAAA GATATGCCTG TCTGCCATCT TGGCCCCTGT CTGAGGGAGG	200
	С	201
	(2) INFORMATION FOR SEQ ID :482:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 162 base pairs

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(B) TYPE: nucleic acid(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :482:	
10	CGGCTCAGNC TGTTGGCGCG AAGAGAGTCT AACCCAAAAT TGCAAAACTC	S
10	CCGTTGATTT CCAGGCCCTA CCACACGGCG ATGTCAACTT GTCCTCCAGA	100
	CATGGACGAC TACCAAAGAT CCCAGCTACG AAGCATGGCC TTGCTTAGAA	150
15	ACNTTTTAG AT	163
	(2) INFORMATION FOR SEQ ID :483:	
20	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 250 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :483:	
30	ATATGAAGGA GGAAATGCTC GTCACCTTCG TGAATACCAA GACCTGCTCA	50
30	ATGTTAAGAT GACCCTTGAC ATGAGATTGC CACCTACAGA AGCTGCTGGA	100
	AGGCGAGGAG AGCAGGATTT CTCTGCCTCT TCAAACTCNT NCCTGAACCT	150
35	GAGGGAAACT TTGGATTCTC CCTCTGGTCG ATACCCACTC AAAAAGGACA	200
	CTTTTGATTA GGACGGTTGA AACTAGAGAT GAACGGTTAT CAACGAAACT	250
40	(2) INFORMATION FOR SEQ ID :484:	
-	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 132 base pairs	

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :484:	
10	AACATTATCT TGACAAACTG AAGAACACTT CAGTTAACAC TACCTCGAAG	50
	AACCATCAAT GACTTGCTTT GAACAGACTA TAAAAGGCAT TCTCAAGGAG	100
	ATTAGAATGT TAATGCCACT TTGATTAGAT CT	132
15	(2) INFORMATION FOR SEQ ID :485:	
	(i) SEQUENCE CHARACTERISTICS:	
	<ul><li>(A) LENGTH: 129 base pairs</li><li>(B) TYPE: nucleic acid</li></ul>	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :485:	
	TGTGCGTGGA GACGGTGGAG AGTGGAGCCA TGACCAAGGA CCTGGCGGGC	50
30	CGCATTCACG GCCTCAGCAA TGTGAAGCTG AACGAGCACT TCTTGAACCC	100
30	ACGGACTTCT CGACACCATC AAGAGCGAC	129
	(2) INFORMATION FOR SEQ ID :486:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 172 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	••	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :486:	
	TCGCAAGAGG AGACATTCTG ATCATCCTCA CTGGACGCCA CAGGGGCAAG	50
5	AGGGTGGTTT TCCTGAAGCA GCTGGCTAGT GGCTTATTAC TTGTGACTGG	100
	ACCTCTGGTC TCAATCGAGT TCCTCTACGA AGAACACACC AGAAATTTGT	150
	CATTGCACTT CAACCATATC GA	172
10	(2) INFORMATION FOR SEQ ID :487:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 210 base pairs	
15	(B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :487:	
	ATGCTGCACA CTATGTCTCA CAAACTAAAT GGATCCATTA AAAGTTATGA	50
25	TTTAAAAGGC GACCACCCC AAAAGAAGTC ATAACACTCA AGGGTGTCAA	100
	TATATACAAC TGTGTAAACA CAACCAATCT ACAACTATAT CAACACAACC	150
30	AGCACTCCTC TATGGGCACA GACACACA CAAAATTGTC CTTGCTTTTC	200
	TCAGATATAT	210
	(2) INFORMATION FOR SEQ ID :488:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 90 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

	(xi) SEQUENCE DESCRIPTION: SEQ ID :488:	
	ACATGGATAG GCGTATGCAT ACTACACTAA GGAGAAACAA TGGTCTACAC	50
5	ANACGTAGTG AGAACATTAT CTGTATACGG GAACTGTGAT	90
	(2) INFORMATION FOR SEQ ID :489:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 99 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) TOPOLOGI: Tinear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :489:	
20	ACCATGAGAC CTACATCCGA ATCTGACCCA GGCAAACATA CCGGGAGCCA	50
	TACCGCACTA NCGGCTCTTC TCAAATCTCC TGGCCACNCA CCGAGNGCC	99
	(2) INFORMATION FOR SEQ ID :490:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 186 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :490:	
35	GGAAACCTGG AGGTGCGCAT CCTCGAGTGC GAAGAGAAGG TCTTCCCCAG	50
	CCCCCTCTGG ACTCCATGCA CCAAGGTCAT GGCCAGGAGC TCTTGGCAGC	100
40	TCAGCCCTGC CGCCCCAGAG CATGTGGCGG CTGCTCTCTA CCAGCCGAGA	150
	GCTTCGGAGA TGCAGCATCT GCGGCGAATG CCCCGA	186

	(2) INFORMATION FOR SEQ ID :491:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 263 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	·
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :491:	
	AGCCAACTAA GTTCTCTCTT CGTGAAACAC AGGTCCATGA GTCGACACAA	50
15	ACACTAATGC AAGAACCATC ACGGAAAACC ACCGCAGCAG CTGAAACTTT	100
	TATAGCCCAT AAAAGGACCA AACAAGTAAG CTGAATGACT GTGAAAATAT	150
20	GACCTTCCAG AGCGGCACAT AACAGGATAT CAAATCAGGC TGATGCTTAG	200
	CAGGCTTCAA ATATNATGGT CAAATGACTG GATTACTTAN ATGAGGCAAC	250
	TTCATATCGG AAA	263
25	(2) INFORMATION FOR SEQ ID :492:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 159 base pairs	
20	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :492:	•
	AGAGTGGGGT TAGCTCTGCC TAGCGCTACA CAAGAAAACC TCCCTCCAGT	50
	AAATNGGTGT GGGNGGTCCG CTTTTGGCCA TCATCGCACC CCCCCGGTCA	100
40	CTGGGCGTTG TTGCCGGGCA CTTGTTTNNC NGGCTGGGTG TGTACCGTAA	150

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	CCGTGGGTC	159
	(2) INFORMATION FOR SEQ ID :493:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 197 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :493:	
15	GGGCAGAGNA AGAACTGTTC CACCAGGTGA ACAGTCCTAC CTGCTTGGTA	50
	CCATAGTCCC TCAATAAGAT TCAGAGGAAG AAGCTTATGA AACTGAAAAT	100
		150
20	CARATCAAGG TATCGGGAAG AATAATTTCC CCTCGATTCC ACAGGAGGGA	150
20	AGACCACACA ATATGTNGTG CTGGGGCTCC CCAAGGCCCT GCCACCT	197
	(2) INFORMATION FOR SEQ ID :494:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 188 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :494:	
35	GATGGGGAAG GGCATCCCAA CACAGCCTGT GGATCCTGGG GCATCTGGAA	50
	GGGCGCACCA TCAGCAGCCT CACCAGCTGT GAGCCTGCTA TCGGGCCTGC	100
	CCCTCCAATA AAAGTGTGAG AACTCCACTG TGTGCCCTGT CTTTGGGCAG	150
40		
	GGAGGGCTGC TGTGAGTGGA GTCTTGAGTN GGTGAGTG	188

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(2) INFORMATION FOR SEQ ID :495:

	•	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 169 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :495:	
	ACATGACCAT CCGCATCCGC CTTTATTGAC AATGAGAAGA TGGAGTCCCG	50
	10112011001111 00001111000 011111110110110110	
15	GACGCATCTA TCCCTCTTTG GCCCTTACAG GTTTGCCACG AGAGTGAGAC	100
	GCCTTCCTGG ACCAGGGGAG GGNGNGTTGG TNCTNTGNGC GTGNGGGTNT	150
	GTGGGNGCTG CTGGGGAGG	169
20		
	(2) INFORMATION FOR SEQ ID :496:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 172 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :496:	
	CAGAGAGAAC GTTTCTATGG CTGCTGCTTC TAGGAGTCTC TCGCTCATAG	50
	Changing differential electronic industric legitering	30
35	AAAAGGCACA CACTGAAAGA GGAAGCAGAT CCCATTGCTG TGGAAGTCCC	100
	ATTGTTAGGA AGCTCTGCTT TTCTGGAGTT CAAATTCGCA TTCATGATGC	150
	TTTAAACCGT CAAGCTGGGT GG	172
40		
	(2) INFORMATION FOR SEQ ID :497:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 246 Dase pairs

	(B) TYPE: nucleic acid	
5	<ul><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	
J	(b) Torobosi. Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :497:	
10	Chalanacae mmhacamana amhacaemha hannan an ann an ann an ann an ann an	
	GAGAGTGGGG TTAGCTCTGC CTAGCGCTAC ACAAGAAAAC CTCCCTCCAG	50
	TAAATNGGTG TGGGNGGTCC GCTTTTGGCC ATCATCGCAC CCCCCGGTC	100
15	ACTGGGCGTT GTTGCCGGGC ACTTGTTTNN CNGGCTGGGT GTGTACCGTA	150
	ACCGTGGGTC CTCTGACAAG TGCCTAACTC GGCCCACCCC TTAGGGTGTG	200
	TNTCATCGAA GTGTAGNGAA TGGTGGAACG TTTGTTTGTN GTGTGC	246
20	INTERIORAL GIGIGAL INGINITATION GIGIGA	246
	(2) INFORMATION FOR SEQ ID :498:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 215 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) Torobodi. Timear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :498:	
	GCCCCTTTAC CAGCAAGTCC TCTACTCAGA AAGAACTGAC CCACGCAAGT	50
35	CTGGGAGAGT GACTAGTTCA AATGTGCAGG GCTGAAGCTT CCAAACACAG	100
-	ordening distribution interested delaymostic commenced	100
	CCACTATTTT TGTTGTATAT CTTCATCTCA ATGGCGACAT GGCCACTGCC	150
	CAAGGAACTT GTGGCAGGGA TCCCAAGGTG AGGCAGCAAC AGATGTCTGT	200
10	GANGAMOGOMO GOMMA	
	GAACATCGTG CGTTA	215

	(2) INFORMATION FOR SEQ ID :499:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 195 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :499:	
	GATNGCCACA TCTCAACACT ATACNACTCG CTNTTCGAAT TCGCCGTNTT	50
15	AGAACCGCAA GAGACCTTGA TTTAGTCACG CGAGTTCGTC TTCCTGTTCC	100
	ACANGAAAAT AAAGCTAGGG AGGTGATTTA TCTATCCGAG AAAAAAGCCG	150
20	GGGACTGGTG GAANNNGAAC AATGNTCTCT NTGTCGTACT ACAAT	195
	(2) INFORMATION FOR SEQ ID :500:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 260 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :500:	
	GCGGCCTTGG GGGCACCGGC GTGTCCTGCC CAGTGGGATT AAAAAATAAT	50
35	GCTCCCCACA TGGCGGGCCT TTGAGGTTCC AGTAAAAATG CTTTCAACAA	100
	ATGGGCAATG CTTGTGTGAT TCACAATCGT GGCATTTAAA GTGCACAAAG	150
40	TACAAAGGAA TTTATACAGA TTGGTTTACC GAAGTATAAT CTATAGGAGG	200
	•	

CGCGATGGCA AGTTGATAAA ATGTGACTTA TCTCCTAATA AGTATGGGGG

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	GTGGAGCTGT	260
	(2) INFORMATION FOR SEQ ID :501:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 268 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :501:	
15	AAAGGCATAG TAAAAATAAA ATCTACGTAA GTAACAATCT AATACTATAT	50
	TAAATNOGTI GCTACAAAGT GTTTTGTTTC TCTAAAAAGT AGTTTTTGCA	100
20	TATCATTCGA CCTCTTCACC CATNTGCTGG CTTATTTGCT TTATATACAA	150
	CAGTTAAAAT TTGTGCACTA AGCTGAGCTG CCTTCACAAT GTGGTTCAGA	200
	CAAAATGCAC CCAAAGAACT ACATGTTAAG AGAGTTTATG TCCATGCTCA	250
25	ACCATGGCTT GCCCAAAT	268
	(2) INFORMATION FOR SEQ ID :502:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 152 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :502:	
	AAAAACTCTA ATCCAGACTA CAGTTGTCGA GATTCAAGTC GTGAGTGCAG	50
40	GAGCGTACAC AGTGCCGTGC TGGCACATGC ACTGCACACG CTGTAGAGAC	100

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	GCTGACCTGG CTCTCGGAAA CGCAGGAGTC TTTCTGAGCC AGCTCAGAAA	150
	cc	152
5	(2) INFORMATION FOR SEQ ID :503:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 141 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :503:	
	CCCTGACCCC TCCTCACCAC CGCGCTGCAC CTCAGGGTTA CAAGAAGAAC	50
20	TAGGAAATAA CGCCGGCCAC CNGACCCCTG GAGAGGGGCC GGCTAGAACA	100
	NTTCTAAGAT CCNGCACAGC AGGTCCCGNA TGTNGAACCT T	141
	(2) INFORMATION FOR SEQ ID :504:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 107 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :504:	
35	CACACGACAC ACGACACGCA CGCAAACACG CCAGACGCGA CAGAGCGCGC	50
	GCGGGAGCGG AGCAGCGGAA GCGCAGCAGC GCACACGAGA GATAAGGGCG	100
40	GCCGAGC	107
	(2) INFORMATION FOR SEC ID :505.	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 193 base pairs(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :505:	
10		
	ACCCTCTTCT GATAAATTTG AGGGCCCGTT TGTCCTTGGA GACCTTCAGT	50
	AACTCCATGG CGCGCCATCG TACGGGGCAA ANACACACCT CCCGAATCAT	100
15	GTCCCGCACG AACTTGGTGT GTTTGGTCAG ACGCCCGCGT TNGGCNTGTG	150
	CTGGGCTTGC TCACGTTCTT GTCACTTTGT GGCCCTTGTT GAG	193
	(2) INFORMATION FOR SEQ ID :506:	
20		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 274 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :506:	
30	(XI) SEQUENCE DESCRIPTION. SEQ ID . 300.	
	ACATGGATAG GCGTATGCAT ACTACGCTAA GGAGAAACAA TGTTCCTACA	50
	TATTACGGGT AGTGAGAACA TTATCTGTAT AACAGGGAAC TGTGATTATT	100
.35	TAAAAATAGC AGAACTTATT ANCTGTGCTT TAGAAATAAC TGTATACAGT	150
	GTTATAAGTT GAAAAGAACT CAAAATAACT AATAAATATA ACCTATGTAT	200
	TAGAATTAAA AAAGCTGCTT TCTGTGAAGT CAATCAGCTA TATTAAAAAA	250
40	TGACACAAAT CCAAACAAGA TGCA	274

	· (2) INFORMATION FOR SEQ ID :507:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 281 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	•	
10	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :507:	
	CAGGAGAAGG AAGGTTGTAC GTGGACACTA TAAAGGTCAG CAAATTGCAA	50
15	AGTAGTCCAG GTTTACAGGA AGAAATATGT TATCTACATC GAACGGGGCA	100
	000000000000000000000000000000000000000	
	GCGGGAAAAG GCTAATGGCA CAACTGTCCA CGTAGGCATT CACCCCAGCA	150
	AGTGGTTATC ACTAGGCTAA AACTGACAAA GACCGCAAAA AAACCTTCAA	
20	HOTOGITATO ACTABOLIAN ANCIONCANA GACCECCAAAA AAACCITCAA	200
	CNGAAAGCCA AATGTNCCAG CCGGAAAGGA AAGNGCATAC AAGGAAGAAA	250
	THE PROPERTY OF THE PROPERTY O	250
	CCATTGAGAA GATGCAGGAG TAAAGTATTA T	281
		201
25	(2) INFORMATION FOR SEQ ID :508:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 180 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :508:	
	AGGGNTGCTA ANNTATTGGT GGGCAGGAGG CATCGCTGAT GATCTTGAGG	50
40	CTGTTGTCAT ACTTCTCATG GTTCACACCC ATGACGAACA TGAGGCATCA	100
40		
	GCAGAGGGGA CAGAGATGAT GACCCTTTCG CTCCCCCCTG CAAATGAGCC	150

	CCAGCCTTCT CCATGGTGGT GAAGACGCCA	180
	(2) INFORMATION FOR SEQ ID :509:	
· 5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 104 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :509:	
15	AAATGCAAAA CTCACCGTGC ACACTCCTAG ATCCCTGCCA CAAAGAAATC	50
	TTTGAAAAAT GAAGTCTTCC TTTCGGACAA TATACCATTN GAGTTTCTCT	100
20	ATTT	104
20	(2) INFORMATION FOR SEQ ID :510:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 171 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :510:	
	GTNNATACAC AACTAAGTTC AAATAAAAAA ACCAAATNAA AAATNGGCAG	50
35	GGAAGCTAGA GCCAGAATCA GGAAAATCTG TTTCCTCGTC CCCAGACTCC	100
	CGCCAAGCCT ACTCCACTAA CTAACANNGA CTCTATCAAG TTTCTATCAA	150
40	GACTTGCATC TGNATCTTGN A	171
•0	(2) INFORMATION FOR SEQ ID :511:	

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(i) SEQUENCE CHARACTERISTICS:

	(A) LENGTH: 255 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :511:	
10	ACTGTACCTA TCATCCTGAA AAACTTTATG GGGGAGAAAG GTCAGCAGCT	50
	TCTCTTTCTT TTNATCGAAA ATAATAAAAC TGCGTATTCT ACTTTAACTA	100
15	AATGTAAGGA AGAAAATATA CAAGCCCATA TTTAATGTAT TTCTATNCGA	150
	GCAACAATAG TTCATATGTT CATGTTTGCT ACTATCACAA TTCAACATAT GAACACAGAT CAGCTCTATA CCATGAATAC TGCTGGAAGT GATGGTTTAG	200
20	GARCACAGAI CAGCICIAIA CCATGAATAC IGCIGGAAGI GATGGITTAG	250
	GATTA	255
	(2) INFORMATION FOR SEQ ID :512:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 210 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :512:	
35	GAAAGATTGG ACATGATTGC GTTTATAAGA ATGAGAGTGT TAAATTGGAT	50
	TTCTTGCTTT ATTTGTGACA TTTCAGTTTA TTAGAAATCA TGTTACCATT	100
40	AGAAAATTG AAGTTTCCTA GTAACAAAGT AATTTGATTT GTGTAACTTG	150
	ATAAAAGATT TACTGACTTA AGCTTTTGTT TTTTTTCATA AGCTGCTTTT	200

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	GAGCTTTGTC	210
	(2) INFORMATION FOR SEQ ID :513:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 222 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID ::513:	
15	CTGTACAATC ATCCTGCAGA AAATTGTTTT GGAGAATTCT TGGTAATTGA	50
	AGACCAGCAG AGCACCCCTC CCCACCGCC CCGTAAAAGT GCTTACAATG	100
20	AACAGGGATT CTTTCTTTA CAAAAGACCC AAAGATACGT GGACAAAAAA	150
	AGAAAAGCTT GAAGTCTCAA TGCCTAATGT GTGCACATAA AACAGGCACG	200
	AAGAAACAAA CGTGTGCATC CT	222
25	(2) INFORMATION FOR SEQ ID :514:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 240 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :514:	
	GCAGGAGAAG GAAAAGACAG CAACTCATCC CAGAATTGCC NAATGAAGAT	50
40	GAGGAGAATC CCCTCAAAGG GATCTGTGTG CTTACAGTGG TGACAGTGAC	100
- •	AATGAGGAGG ACTGATGAGA GACTCAAGAG TGAGGAAGAG AGCTAGCTGA	150

	CTGNAAGAAA TGACCTGTCT NNTCTNCAGC GCCATTCCCN AACAGATGCC	200
	CTAGTCAGGA CCACAACTCT TAAACCTCAT AGCNAAATAT	240
5	(2) INFORMATION FOR SEQ ID :515:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 183 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :515:	
	(NO) COLECTION DESCRIPTION DAY ID . 313.	
	CANTGCCCAN TCTGAGTGTA TACACATCTT AGGAAAAATA ATCTAANGTA	50
20	ACTTTTGAGG GTGAGAGNGG AAATAAGAGA TCACATTTAT TCAAGACTGA	100
	TCCCTATNAG GAAGGAGAGG CCCAGGCACA GATACCACAA AAGAGCACAG	150
	TACCCAGCTG TCCTGGNATT GNTTGAGTGT AAG	183
25	(2) INFORMATION FOR SEQ ID :516:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 215 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :516:	
	TCGCAGCAGA AGGAAGTCGT TGACCTGGCA GCCAAGGGAA CACACAAACA	50
40	CACTCACACA CACATGCACT CACCTGCATA CACACACAC CATACACACG	100
40	AACACTCATA CACACANGCT TGTGCACACA TGTTCATGCA CATGCATCCA	150

	CTCACACTCA TACAAACGCA CATTTAAACA CGTGTGNACA NTGTACTCAG	200
	ACACACAG GTGTG	215
5	(2) INFORMATION FOR SEQ ID :517:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 181 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :517:	
	TCGCAGAGAA GGAACAATCA GGGCCATGAC AGGAACCGCA AAGAACCAGA	50
20	GGGTATAGGC AGCAAAGAAG GGCACATAAA AAGGCTGCTT CTCAGGAAAG	100
	TGTCGCAGTG AGACAAACAC ACATACAGAC CACACACAGA CCACCACCTC	150
	AATCATGGGC CCTAGCCGNC CTNGTAATAC G	181
25	(2) INFORMATION FOR SEQ ID :518:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 260 base pairs	
30	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :518:	
	ATGTAACTCA ATCCATCCGC AAGAAAACCA AACCAACAGA AAAGGAAGCT	50
40	GAAGACATGG ACATCGCAAG CCACGCGGTA ATGCATACTT GGCACAGAGT	100
40	AGCCAATATA GAAGACGTGT GCCTCACACG GTTCACTTTG TTCATCAATA	150

	AAAGAATATA AAAATCTCGT TCACCCAGTG GTAAGTGTAT TAAAATAGAT	200
	CTGTATCATA CACACAGTTT CTCCCGGAGT CGTGAGAATG ACAGGAGGGA	250
5	CCTGGCAACT	260
	(2) INFORMATION FOR SEQ ID :519:	
10	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 115 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :519:	
20	AAGCTAATAC AATGGTCATT TCCAGACAAA TTTAAAGGAA ACACTAAGGC	50
	TGCTTCAAAG ATTATCTGAT TCCTTTAAAA TATATGTCTA TATACACAGA	100
	CATGCTCTTT TTTTA	115
25	(2) INFORMATION FOR SEQ ID :520:	
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 175 base pairs  (B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEO ID :520:	
33		
	CANGTGGCTT CAATTAAACA ATNAGGAGCC TCNNAACATC CTGTCGCAGA	50
40	AACTCCCAAT ATAAACGCCC CCANACACTA ACACAAAACA GCCTTATTAA	100
	CCAGATAAGT TCTCCACTAC CACTCCTAGA TTTGATGTAA CCCTGAATNT	150

	GACTNATAGN TNGACCCACC TGTGA	175
	(2) INFORMATION FOR SEQ ID :521:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 136 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :521:	
15	ATGGAATCAA ACAGCTCTAT AATGAAGATA ATGTCTCAGA AAATGTGGGT	50
	TCTGTGTGTG GCACTGATTT ATCAAGACAA GAGGGACATG CTTCCCCTTG	100
20	TCCACCTTTG CAGCCTGTTT CTGTCATGTA GTTTCA	136
	(2) INFORMATION FOR SEQ ID :522:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 200 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :522:	
	AATGGAGCAA TTCATCCAGT TCTTCTAGAA ACAGCTCAGA ATCAAAGCTG	50
25		
35	GATATATTT GTGTCTTCTG TGACTGTTCA TTCATGGAAG GAAGCAGACT	100
	GCTTTGGGCA GAATTATTCT CCTGACTACT TGAGCTAGTA GACTAGGAAC	150
40	TATTCCATAA GAGGAAATCC TGTAAGTCTT AAATCCCCAC TGGAGAAAGC	200
	(2) INFORMATION FOR SEQ ID :523:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 204 base pairs(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :523:	
10	•	
	AGTAAGGTTT TGCATCCTTT GATCAGCAGG TAACTGACGA ATTCTTGAGT	50
	CGAAGATTAT ACCTTGATGA GCTTTGATGA GCTCTTGCAA ACGAATGAGA	100
	de la constant de la	100
15	CCAGTGCTGT CATCATACAC AACCATGACG TTTTCCACTT GAAAAACTGC	150
	ACCAGGTCTA AAATGCACGC TGAGTGAAGA GAAGTCTGGG CAGAGACTGA	200
	CATA	204
20		
	(2) INFORMATION FOR SEQ ID :524:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 168 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :524:	
	ATATCTGTCT CATCATCCCA AGGTTTCACA TCTAGTAAGA TGGAAGACTT	50
35	CCCAACAACM CCACCOMMUM MCCCOMMUM MCCAMMUM MCCAMUM MCCAMMUM MCCAMMUM MCCAMMUM MCCAMMUM MCCAMMUM MCCAMMUM MCCAMMUM	
<b>J J</b>	GGCAACAAGT GCAGGTTTTT TGGCTTTCTT TGATTCATAT TGTGCAAGAC	100
	GTTCTTCCCT CAGCCTCTTT GCTTCTTCAC TTNNTCTAAN ATAATCCAAA	150
	GAGGTCAATG TATCATCA	168
40	/2) INFORMATION FOR SEC. ID . FOR	
	(2) INFORMATION FOR SEQ ID :525:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 291 base pairs

	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
•		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :525:	
10		
	AAACTGTTCT TTAAAAGGCC TCTCCTGGTT ATTAAGCCAG GAAGAGAAGT	50
	AGAATCTCGA ATCACCTAAN GGAAATGGTG ACACAGGTTG TCCTTTCTCA	100
15		
15	GCCGTTGGTT TCCTTTCATC TCTGAAGGCC TGTAGTACCA TGAGGAAAAC	150
	ATTTAATTTA GAGGGTGAAC CCAACAGTAG GAAGCTGAAA GCAGAAGTGT	
	ATTIANTITA GAGGGTGAAC CCAACAGIAG GAAGCIGAAA GCAGAAGTGT	200
	TTATCTCCCT CTGCATTCAG ACCAGGCTCC TTAGTGCACT CATCAGACTA	250
20	The second second second calcadal	250
	TCGCTGCCCC TGCTGTCTGC TGTTGAGCCT TCACCACCAC T	291
	,	
	(2) INFORMATION FOR SEQ ID :526:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 207 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(with GROUPINGS PROGRESSION of the second	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :526:	
35	CATCCGCGTG CTGGACCCCT TCACCATCAA GCCCCTGGAC AGAAAACTCA	
•	CATCOGOGIG CIGGACCCCI ICACCATCAA GCCCCTGGAC AGAAAACTCA	50
	TTCTCGACAG CGCTCGTGCC ACCAAGGGCA GGATCCTCAC CGTGGAGGAC	100
	TOTAL TOTAL TOTAL TOTAL TOTAL COLOR	100
	CATTATTATG AAGATGGCAT TGGTGAGGCT GTGTCCNNNN GTAGTGGGCG	150
40		250
	AGCCTGGCAT CACTGTCACC CACCTGGCAG TTAACCGGGT ACCAAGAAGT	200

	 GGGAAGC	207
	(2) INFORMATION FOR SEQ ID :527:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 218 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :527:	
15	AGCATTCCGT AAGGACGGAC GTGTTCAAGG ACAACTTTGA TGAGATGGAC	50
	AGGTCTAGGG AGGTTGTTCA GGAGCTCATT GATGAGTACC ATGCGGCCAC	100
20	CCAGCCAGAC TACATTTCCT GGGGCACCCA GGAGCAGTGA TTTCCCTCCC	150
	CACTACTTCT TINCTTAGAT GGTAACCACA GCCTCGACCA TGCCTGCTCC	200
	CTCTGACCCA GCTTCACC	218
25	(2) INFORMATION FOR SEQ ID :528:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 229 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :528:	
	AACCTNATGA CTCTCCATCC CCTTGAACCA AACATCTAGC ACTCAGCTCC	50
40	AGCATATTTC ACCATTCAAC CCGAAATTCA CAAACGCTAC TTGTCGACTT	100
	GTAACCAATT TACTCAGCAA GTGCTGACTC CTTAACGGAT CATCCCCATC	150

	CTNCGCTGCA AGGTGACTCA CTAAAATCAT NTGTTAACAC CAACATTATT	200
	TTTACACCCA GTGTGTAAGC CAGAAGGGC	229
5	(2) INFORMATION FOR SEQ ID :529:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 117 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :529:	
	ATATTATTCA TCATCCCAAG GTCACATCTA GTAAGATGGA AGACTTGGCA	50
20	ACAAGTGCAG GTTTTTGCTT TCTTTGATTC ATATCGTGCA AGACTTCTTC	100
	CTTAGCCTCT TTGCTTC	117
	(2) INFORMATION FOR SEQ ID :530:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 179 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :530:	
35	TCGCAGCAGA AGGAAGCTGA TCCACCATCC GGACAACCCG AACCCAAGCT	50
	GAAGACGAGA AATGATCCAG AAAGAATGTG CTGCAATCCG GTCATCTTTT	100
40	AGAGAAGAAG ACAATACACA CCAATGTCGA AATGTGGCAA AATTACTGTA	150
70	ma mana a a mana	120

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	(2) INFORMATION FOR SEQ ID :531:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 204 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :531:	
	AAAGCATTCA AGTAAGAATA TGGCAATAAA AAACAAAAAT ATCTTCTCAG	50
15	CATTCAAAAC AAAACGCATA AGTCATTCCT AACTTNAGAG CTTTATAGCA	100
	TTTTCCTAGA CAGGAAGGGA AAAAACAGTT AGCATTTAAA AGTCCGGAAA	150
	GCTTTTCGT TGNNTTAATT ACATCAACNN TCTGCCTTTG TCCAAATCCC	200
20	TTAT	204
	(2) INFORMATION FOR SEQ ID :532:	
25	· · · · · · · · · · · · · · · · · · ·	
25	(i) SEQUENCE CHARACTERISTICS:	
	<ul><li>(A) LENGTH: 183 base pairs</li><li>(B) TYPE: nucleic acid</li></ul>	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	(b) Islandi	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :532:	
35	AAAGGAGCTC AGAACTTCAG CTTGAGCAGG AAGAGGAGGA CGTGCCAGAC	50
	CAGGAACAGA GCAGCAGCAT CGAGACCCCA TCAGAGGAGG CGGCCTCTCC	100
	CCACAGCTGA GGGGCTGGGC TAGGGGTGGG TGGAGCCCTT TTAAAATACC	150
40	CTTTCTTCAA AACTTAGCTC TGAATGGAGA AAC	183

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	(2) INFORMATION FOR SEQ ID :533:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 287 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :533:	
	GAAACAAGTT CTCGCTCATC CCTGCATTTC TGCCAACTTC AGCTTGCAAT	50
15	ATTTATACTC CAGACTATTT TCATCAGACA AAAACCAGTA AGCAGGGTCC	100
	TCTTTGAGAA GAGTTCTCTC TTTGGGAGAC AGGCTGCCTT CGATGACACG	150
	TTTCACAAGC TGGTTGATGG TGCCCACTAC CCGTGATCTG CTCGCTGGGG	200
20	GACAGCATCA CTCAGACTAC TTGGAGCCTT GCCTGAATTT CAGGTTTCGT	250
	AGGAGGAATA ATTTTCTCCT TCTNTNGTAT CGNCTCT	287
25	(2) INFORMATION FOR SEQ ID :534:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 154 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :534:	
	AGCCACTGCC CCTCTTGTCT ACGTATTCCC AAAATTAAAC TTTGATGCCT	50
40	GACTTTTTGC AGTCAGTTTT AAGTGAGCTC CCTGAGGTGC CAAGGCCATG	100

GTGTCCCCCT GCTGCGTCTG TTCGTCAGCT GAGTTCTTGT GAATCTNTGT

150 .

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	TTAG		154
	(2) I	NFORMATION FOR SEQ ID :535:	
5		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 212 base pairs	
,		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
10			
		(xi) SEQUENCE DESCRIPTION: SEQ ID :535:	
15	GATTA	CCCTA TATCTACAAT TNGAGGTAAA ATAGAAGCAA CACATAAAAG	50
	GGCCT	ATTTC TGCTACCATG TCATATAATT CTCCATAGTG AATATTGTGA	100
20	TAAAG	CTACT GAAAACTATG CCTCACAGAG CCTAGCTTCT TGTAGAGCTG	150
	GTATT	TTACA ACTCGCATTG CTTGGAAATC TCAACACACG TAAGACTCTC	200
	CTAGG	AAGGC AC	212
25	(2) I	NFORMATION FOR SEQ ID :536:	
		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 168 base pairs	
		(B) TYPE: nucleic acid	
30		(C) STRANDEDNESS: double	ř
		(D) TOPOLOGY: linear	
35		(xi) SEQUENCE DESCRIPTION: SEQ ID :536:	
	GGAAG	CTCAR TGTCCGGCAG GTCARTGCTT CNCGGACACG GATCATTTTT	50
40	ATCTG	ATTCC AGCCTGCTTG CAACCCTGGA ATCCTCTTGT TCCCTGCTGC	100
70			

CTGCCCCTTG GGAAGGNACA GTGATGTCTT TAGGGGAAGG AGGAGCCCCT

	• •	NTCGGCAGTT GTCTTACT	168
		(2) INFORMATION FOR SEQ ID :537:	
5		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 147 base pairs	
		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
10			
		(xi) SEQUENCE DESCRIPTION: SEQ ID :537:	
15		CGGATCATTT TTATCTGATT CCAGCCTGCT TGCAACCCTG GAATCCTCTT	50
		GTTCCCTGCT GCCTGCCCCT TGGGAAGGNA CAGTGATGTC TTTAGGGGAA	100
20		GGAGGAGCCC CTNTCGGCAG TTGTCTTACT AGGNNNNTAA TGAAGTA	147
20		(2) INFORMATION FOR SEQ ID :538:	
		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 250 base pairs	
25		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
30		( ) ADAMAN DE LA CARRA DEL CARRA DE LA CARRA DEL CARRA DE LA CARRA	
		(xi) SEQUENCE DESCRIPTION: SEQ ID :538:	
		GTGGAATCTC AATAATGACA CAAGGTACCA ACTGCCAGCA TTTCTGCGAG	50
35		GCAATCCTGC TCTTAATCTG CAAGATGGAC CCTTCTGCAG AGAGATTGCT	100
		GTGGGTGATT CTAAGGACAG ATTGTTATAT ACGATGTGGG AGAGCAGATT	150
10		GCTGTTCCCC GCAATGATGA ATGGGCACGG TTTGGCCGAA CACTTGCAGA	200
-0		AATNAATGTA AACCCNAACT GATGTAGAGA GGACGCAGCT GCCCNAATAC	250

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.. (2) INFORMATION FOR SEQ ID :539:

5	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 184 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :539:	
	AGAAGGTAAG GGAGTGGGAG GCAGGTGGGT GTTCTGGAGG GGGTATCCTT	, 50
15	GTGCTCTAAG GGTGCTATGT TCGATGCTGG TGTTTCGGGG ATGGTGAATG	100
	CCCTTCTTTA ANNTTAGAGG GAAATCCAAA CCAATAGGCC CCAAGGTTGC	150
20	CAGTGGGATA GGGGTGTAAA AAAGTAAATT GGGC	184
20	(2) INFORMATION FOR SEQ ID :540:	
25	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 154 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :540:	
	AACTTATAGA AAAGTAAAGG AAACCCCAAC ATGCATGCAC TGCCTTGTGA	50
35	CCAGGGAAGT CACCCCACGG CTATGGGAAA TTAGCCCGAG GCTTANCTTT	100
	CATCATCATG TCTCCCAGGG NGTGCTTGCA AAGAGATATT CCGCCAAGCC	150
40	AGAT	154
40	(2) INFORMATION FOR SEQ ID :541:	

(i) SEQUENCE CHARACTERISTICS:

	(A) LENGTH: 175 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :541:	
10	AATTGAATTC TTAAGAAGCT GTCAAATATG GCAGTCTTTT GATGTTAGTA	50
	ATTTTGTTTT CTTCTGTGTT ATTGGTTCAA AGTACTGGCC TTTTCCTTCA	100
15	TTTCCAGTAA TTATTTTATA ACTATCACTT TTAATTGAGT GGAAATTAGA	150
	TGATTTGGTT ATACTGTGAA ACAGC	175
	(2) INFORMATION FOR SEQ ID :542:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 221 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :542:	
	AAGTACCTTT TCCTGCAGCT GCCCGTATGC CTGAGTGACT AAGGGGCAGT	50
	CGTGAGAGGC AGAGTCCAAG ATCTCATTGG TCGTTTCCAG ACTGCCGTCC	100
35	AGCCGTGCTG CTTCATCAGG GCACACTCGC CGCCCTCCTG GGGCCAGGTT	150
	GCACATGTAC AGGTACCCGT CGGCGCACCC ACCAACAACG CGGTCTTCTG	200
40	AATCGCGACT GGCNAACAGA T	221
70	(2) INFORMATION FOR SEQ ID :543:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 186 base pairs

	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :543:	
10		
	AAGTAGATAG CTTGCATCCT GACACCGTGG CAAAGTTAAG AAAGTTGAAG	50
	GAGAAACATA CCTTGAGAGG GGGTTTTCTT TAAAACTAGT GTTAGAAGCT	100
15	TAGGGATTTT TTTTTTTATT CCTTACTAAC TTTCACCCAG AACCGCTCTA	150
	,	
	TTTGACTTGT GCCGACATTG CAAACTTTNT GACAGG	186
	(2) INFORMATION FOR SEQ ID :544:	
20		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 153 base pairs	
	(B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
2.5	(2) 20102001 22	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :544:	
30	AGCATCCTTG CCACCTCCCC ACCCGGGAGT CAAGGGTCGT GGTTCTGCCT	50
	TGAACAGGCC ACAGCCGTAG CTGTAGAGAG GCCAGTGGTA CATCAGCCCA	100
35	CCGACAGGAG GAGGAGCCCT GGCTTGAGGG AAGGGGAAGC CCAGGCCTGT	150
	GCC	153
	(2) INFORMATION FOR SEQ ID :545:	
40		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 161 base pairs	

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(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :545:	
	GATTCAGCTC CAGCATCCTT GCCACCTCCC CACCCGGGAG TCAAGGGTCG	50
10	TGGTTCTGCC TTGAACAGGC CACAGCCGTA GCTGTAGAGA GGCCAGTGGT	100
	1991101900 119AACAGGG GAGAGGGGT GGGTAGAGG	
	ACATCAGCCC ACCGACAGGA GGAGGAGCCC TGGCTTGAGG GAAGGGGAAG	150
		161
15	CCCAGGCCTG T	161
	(2) INFORMATION FOR SEQ ID :546:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 188 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :546:	
	AATAGCCCTG AGGTCATCCT GCAAAGTGCG TATCAAAAAA TACGAAGTTA	50
30	MAINGCCCIG AGGICATCCI GCANAGIGCG INTCANAANA INCONGITA	30
	GGGTGACAAA GTTTGACAGT GATGTTATAC AAGTCAAACT TGGAAGGTCA	100
•		
	TAGTAAGCAT ACCTATGCTG AGAGAAAGCA TCAAATCCTT TGTGTACACA	150
35	TTTAGTTTTA TTGTAACAAA GCAACTTGTA CACTTTTA	188
33	IIIAGIIIIA IIGIANCAAN GOANCIIGIA CACIIIIA	100
	(2) INFORMATION FOR SEQ ID :547:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 218 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

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(D) TOPOLOGY: linear

<b>5</b>	(xi) SEQUENCE DESCRIPTION: SEQ ID :547:	
	ATNOCTTOTO CATOCANTTA GTTANCAGAA ACTAATCAAA AGAAAGTOTG	. 50
	ACAACTGCAC TCCCCCTTGC ATGCCATTCT CTCAAGCCCA TAATCTTGGA	100
10	GTATCCACAA CGTGCGAAGG CCTACCCTTT GTGTGTACTC ATCTCACGTT	150
•	TACGTATTTT GTNGTTGAGG AGCTCCTCTA CAAATGTTGC GTATCTTCCG	200
15	AATCACTCAT TTAGAAAA	218
	(2) INFORMATION FOR SEQ ID :548:	
20	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 46 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :548:	
30	GGAGGAGACC ATCAGNCCCG TGAAGACCAC TCCTGACGTC TCGTGT	41
	(2) INFORMATION FOR SEQ ID :549:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 146 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	AND ADDUDNED DECEDEDATOR AND ADDUST AND ADDU	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :549:	

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	AGGGGGCTAA NGGTTGGGGG CAGGAGGCAT TGCTGATGAT CTTGAGGCTG	50
	TTGTCATACT TTTCACGGTT CACACCCACG ACGACACGGG GACTCAGCAG	100
5	AGGGGCAAGA CACGACCTTT AGTTTCCCCC TTGCGATAAN CTTCNC	146
	(2) INFORMATION FOR SEQ ID :550:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 221 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :550:	
20	AAATATNGAN TATCCATCCC CTCAAGCATT TATCCTTTGT GTTACAAACA	50
20	ATCCAATTAT ACTCTTTCAG TTATTTTAAC ATGTACAATT AAATTATTAT	100
		200
	TGACTCTAGT CACCTTGTTG TGCGAGCAAG TACTAGGTCT TATTCATTCT	150
	•	
25	TTCTAACTAT TCCAGGCCCT TTTTAATCAA GAAGGCTCCC TAGACCAAAA	200
	TTTTAAAAAG ACAATGCTAG G	221
	(2) INFORMATION FOR SEQ ID :551:	
30	(2) INFORMATION FOR SEQ ID .331:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 116 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEC ID :551:	
	(well and an an an an artifact and the analt	

AAACATCGTT TATTCATCCA GCAGTGTTGC TCAGCTCCTA CCTCTGTGCC

	AGGGCAGCAT TTTCATATCC AAGATCAATT CCCTCTCA GCACAGCCTG	100
	GGGAGGGGT CATTGT	116
· <sub>5</sub>	(2) INFORMATION FOR SEQ ID :552:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 150 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :552:	
	CTCATCCTCT CCTATTACAT AGTGAAGCCC ATGNCAAATA GGAAGAAGCT	50
20	CAGTATCGCT CCTCCCACCA TAACCCCCCT TAATGCCTCC TGAACCATAG	100
20	TTNCCTCCAC TATATATCCC CCCATGTTCC TGCTACCCCA AGTTTTCACT	150
	(2) INFORMATION FOR SEQ ID :553:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 189 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :553:	
35	ACTTATTGAA ATAGCAGACA TTTCGCTAGA CACTCCAATT AACCTGATAT	50
	GAGGCGCTAA TCAATAAAAA AAGTTAAACA TTTGCATGAC TCTACTATGG	100
40	GAATAAATTA CCTGTTTAAT ACCTCGACTT TTTATAGAAA AATAATGATG	150
40	NOON A COMA A ACCARCETA AC COACCOCTOT CAACTATAT	189

	•	
	(2) INFORMATION FOR SEQ ID :554:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 198 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :554:	
	ACTTATTGAA ATAGCAGACA TTTCGCTAGA CACTCCAATT AACCTGATAT	50
15	GAGGCGCTAA TCAATAAAAA AAGTTAAACA TTTGCATGAC TCTACTATGG	100
	GAATAAATTA CCTGTTTAAT ACCTCGACTT TTTATAGAAA AATAATGATG	150
20	NCCAAGGTAA ACCAGGTAAC CCAGGCCTGT GAACTATATG CCTGGAAC	198
20	(2) INFORMATION FOR SEQ ID :555:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 97 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :555:	
	CAAGCTGAGG AGCAAGGAGA GCCAGTCTGA GTCCCAAAAC TGAAGAACTT	50
35	GAGTCTGATG TTCGAGGGCA GGAAGCACCC AGCACAGGAG AAAGATG	97
	(2) INFORMATION FOR SEQ ID :556:	
	(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 269 base pairs

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

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## (D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :556:	
	TCTGCTGTCT GTCGCAGGAG AAGGAATGTC AGAAACTTCA TCCTCTTGTT	50
	GGGGAATGCA CCCTCNTGAG TAGGCTGACC CATGAGGCTG TGGGAATTGA	100
10	GTCTTAGGAC ACAGAGACCA GGGTGTTGAA TTTTCTTCCC TGCCCCTAGG	150
	CTGTTCAGGT CTTCCTGCAG CAGTCAGGGC TGCAAGCCCT GGAAAGGCAT	200
15	CAAAAGAGGC CCAGCTCCAG GATCGTGTGT ATGCTCTCCA GCAGACAGCT	250
٠	CTTCAAGGGT GATCTTGTT	269
	(2) INFORMATION FOR SEQ ID :557:	
20	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 245 base pairs  (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double  (D) TOPOLOGY: linear  .	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :557:	
30	ACTCCCTCAA GGTCGTGCGT CTAAGCCTAC AAGAAAGTTT GCCTATCTGG	50
	ACCCTGNCTC ACGAGGTTGG CTGGAAGTAC CAGGCAGTGA CAGCCACCCT	100
35	GGAGGAGAAG AGGAAAGAGA AAGCCAAGAT CCACTACCGG AAGAAGAAAC	150
	AGCTCATGAG GCTACGAAAC AGGCCGAGAA GAACGTGGAG AAGAAAATTG	200
	ACAAATACAA AGGTTCTCAA GACCCACNNA CTCCTAGNTT NAGCC	245
40	(2) INFORMATION FOR SEQ ID :558:	

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(i) SEQUENCE CHARACTERISTICS:

	(A) LENGTH: 183 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :558:	
10	GAATTTAAAA AAAAAGAAAG AAAGAAAGAA AGGTTCCATC TTAGATTCTC	50
	ACAACCTTCG TTCCGCAGTT CATTAATCCG ACTCTGATGC TAAGGTGACA	100
15	GTGTATGTAA GTAGATTTTT GTTTTCAGTG AAGGAGACCT GGGAAAAGAT	150
	GGATTTCTCT CTGTATCTTA AGAGTTATCA GAT	183
20	(2) INFORMATION FOR SEQ ID :559:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 116 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(C) SIKANDEDNESS: GODDIE  (D) TOPOLOGY: linear	
23	(2) 10.020011 21.1002	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :559:	
	GTCATCTTTG GAAAGTGAGA TAACCAAGGA AATAATCGAA GGAGTTAGGG	50
	AGATGATTAC GTGATAATGA CTTTGGGCGC TTAACCTTTG ATCCCGGGTA	100
35	TGCTNAAGAA GCTGAC	116
	(2) INFORMATION FOR SEQ ID :560:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 160 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

(D) TOPOLOGY: lin ar

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :560:	
	CCTTGATGAT ACCATTATCC TCATTATAGA TGATGCACGG GCCCCTGCGC	50
10	TGGATACGGC GACGGTTTCT CATTTGCCTT TGTCAGCTCT CATTCGCTGA	100
10	GAGGCATAGA CCTTTTTGAT ATCATCAGGC TTTCCGTTTT TAGGAGCAAA	150
	ACAGCTTCTT	160
15	(2) INFORMATION FOR SEQ ID :561:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 101 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :561:	
	GCAGTTGGCA GGTGCACTAT CCCAGATGGG CCACTAATAG AAAGTTCCGC	50
30	AAATGCACCC CGTTCCCCTG TGCGAGATCG TTTGAATNAG ACCAGAAACT	100
	<b>G</b> .	101
	(2) INFORMATION FOR SEQ ID :562:	
35	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 183 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	

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	(xi) SEQUENCE DESCRIPTION: SEQ ID :562:	
	ATAAGTTATA GCAAATACAG TCTTCACAGA TTTGAGTAAC TTTATTCGAT	50
5	TTTATAGTGA TTTCTTAAGG CCTATATCCA ATGAAACCAT TTCCAAGCTC	100
	TATGAGGAGT GGAATTTTAG ATGTCTATTA CATTNGTCTT TTAAAAGAAA	150
10	AATGCTTAAC NNCTAGAATG AGCAAGATTA CTT	183
10	(2) INFORMATION FOR SEQ ID :563:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 187 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :563:	
	AGAGACACGT GAAATTCATA TCTCAAANNC ACAGAGCTGA GACTTTGGGC	50
25	CTAAATACTG TACCACTGGT TCCCTGAACC AAGGAAGAAA AGTGTCGGTA	100
	AAGGCCCGTT AAGACAAGAT GGCAAGGAAA AGCACCTTAA ACAATGGTAA	150
30	GATTTATGTT AGATCAGTGG TAAGAGTTTC TAGTGAC	187
	(2) INFORMATION FOR SEQ ID :564:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 213 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :564:

	GGGACCCCAA ATCACATCCA GAATACTAGA GTGAGGCAGC TGCAACATGA	50
	CACAGAAAAA TGGAATCAGG ATTTAGGGGA ATTGGATTTC AGTGCCTATT	100
5	GAGACACGAT CTAGGAAGCC TACCACTTTG GCTGCTCACT GTATGCACAC	150
	AACCCNANNA NAATNGATGA AAACAAGAAT GTACAGCATG CTCCTAACAC	200
	AANGTGACTA TTC	213
10	(2) INFORMATION FOR SEQ ID :565:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 167 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	A CONTRACT DESCRIPTION AND TO SEC	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :565:	
	TCCATCTGAC ATCGCATTTC CATAGAAATG GCCAAAGAAA GAAGGTCCTG	50
25	GGGTTTTCA TAGAAAGCTC AAAAAGTTCA ACCTTGATGC TATCCCCCAG	100
	CCCAATACAA AATACACAGA AAAAGCAATT ATTAAAATAC TGGCTTCGGT	150
••	TTCTTTTTT CCTTTAA	167
30	(2) INFORMATION FOR SEQ ID :566:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 128 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :566:

	••	GAAGATACAG AACCATCCGI GAAAATCATI TAGCACTGGA GACCITGTIT	50
		GTATTACTTC CTNGTTACTA GACCTCTAA TTCAATGGGG CCCTGCTGGT	100
· 5		TTGTCGATGA ATTGAGCAAC TGAGAACG	128
		(2) INFORMATION FOR SEQ ID :567:	
		(i) SEQUENCE CHARACTERISTICS:	
10		(A) LENGTH: 202 base pairs	
		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
15		•	
		(xi) SEQUENCE DESCRIPTION: SEQ ID :567:	
20		GGAGGCTCGG GAGTAGCATC CTCAGGAGTA GTGTAGCGAG CAAATTTGGA	50
20		AAGTAGTCCT CAATCTTCGA TTTCCCAGCA AGGACTTTCT CAGCNAGCGA	100
		TCTCGNTTGT TGAGGAACGG ATCAAGAGAT GNNNGTNTAG CTGTNNTGTT	150
25		GTTTAGATGT CTTGAAGAGG TTAGAGCCTC CTGTAGGCGG TTGGNNTGGG	200
		NG	202
30		(2) INFORMATION FOR SEQ ID :568:	
30		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 152 base pairs	
		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	
35		(D) TOPOLOGY: linear	•
		(xi) SEQUENCE DESCRIPTION: SEQ ID :568:	
40		,,	
		ATGTCATGAT GCCTAACTCA TACACTCTTT GCCTCAAATA TAATTACTAA	50

	AAACAAATAT AGTATAAACA TTAAACAAAT GAACAATAAT CATCAATAGA	100
	CGGGTTACTT TCAAGGAAGA GTTGTTTTGT GACAAATTCT ACTCTTGATC	150
· <sub>5</sub>	TA	152
	(2) INFORMATION FOR SEQ ID :569:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 181 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :569:	
	CAGGTCCGCG TGCTCTCCGC ACCACCCCAC TTCATTCCGG CCAAACCAAC	50
20	CGCACCCCTG AATTTCTCCG CAAATTTCCT GCCGGCAAGG TCCCAGCATT	100
	TGAGGGGATG ATGGATTCTG TGTGTTTGAG AGCAACGCCA TTGCCTATTA	150
25	CGCGAGCAAT GAGGAGCTGC GGGGAAGTAC T	181
	(2) INFORMATION FOR SEQ ID :570:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 157 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :570:	
40	ATCCCTTGGG AGTTTATTCT CCTGGTAAGC TGTAATTGCA TATCCAGTTT	50
40	AACTGGACTG GGCTGTGTTG GGCGAGGATC NGCAGGGTTT TTTCCTCNNT	100

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	NGAAAGATGA AATAGATTNT TGAGCACTGG NTGCAGAGCC AAAATGCNTA	150
	ATGCTTT	157
5	(2) INFORMATION FOR SEQ ID :571:	٠
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 193 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :571:	
	GGCACTAAAG CCTTTAATAA TACGAGATGA AATGCAACNG TGNNATGACA	50
20	AGTAAGTGAG CCTGACCTGG CATTGCCTCG CCTCACCGCT GGCTTTGACC	100
	AGGGTATGAT CTTTAACTTT TCTGAGCTGA TTTGATCGTG GTCTTTACAC	150
	ACAGGTGGTC GTTCCTGTTT GGACACTGTT TTATTTGTTT GAC	193
25	(2) INFORMATION FOR SEQ ID :572:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 179 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :572:	
	TCGCAGGAGA AAGAGGTTTT CAGAGGCCCT GAGGACATGG CTGCCCTTGA	50
40	GAAGGATTTG AGGAGGTTGG TGGAATTTGT TGAAGGAGAG GGCGAGGAAG	100

AAGGAGAGGA TACTAAAGTT AAAACGTCAC AAGGTGTGCT TTTAAGGGAG

	CTTTCCTGTT TTAAACATGA AAGTGTGGC	179
	(2) INFORMATION FOR SEQ ID :573:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 189 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :573:	
15	AGGACCTCTA AGACATCCTT ATGACGACAG TTTTGTCCAA GGGGATATCC	50
	ACAGAGTACC TTGTGGCATT AGGTGATTGT AGTCATACAC TTTAAAAAGA	100
20	TTTTATTTCT GATCTTTTGG CGATCTTCTT CTTGCCCATG NNGCTGTTAC	150
	TTNGCNCGGG NAGCGGTTAA TTCTANCCGC TAGGTGTGC	189
	(2) INFORMATION FOR SEQ ID :574:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 262 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :574:	
35	GTGCCTTCTA GGTTTTGAAC TTCTATGCAT TAGCGCAGAT GTGGAATGCG	50
	TARAGGTGTT CATAGTTTGA CTGTTTCTAT GATGTTTTTT CARAGRATCG	100
40	TCCTTTTTTG AACTATAATN CCCCNCGGTT ATTTTACCAT CACAGTTTAA	150
	> momentum momentum marketum marketum and a construction and a constru	200

	 ATTATGGGGC AGAGAACCTT TTAATAAGTC TCATTAAGAT CTGAATTTTG	250
	GTTCTAAGCA TT	262
5	(2) INFORMATION FOR SEQ ID :575:	
10	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 56 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :575:	
	CCAAGGAACC ATCTGCGCCG CAAGCCAGAC CCCACAAGAC CTAGNTTGGT	50
	CCTGAC	56
20	(2) INFORMATION FOR SEQ ID :576:	
25	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 158 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :576:	
	GCGAGTCTCA AAGAGTAGAG GAGCGTCTAC TATCTTTCAA CTCCGATCTT	50
35	CTGATGNCGG ACTITACCGT GACAGCGAAG TGGTATTGTA CGTCCAGGCC	100
	CGCCAGCCAC TGTCTTCATG CAGGAACCAC AGTGCCAGAT CCCCACAGCT	150
40	CGTATCTT	158
40	(2) INFORMATION FOR SEQ ID :577:	

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.

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 255 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

5	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :577:	
10	GGACCTTGAC CCACATCCAT GTTGAGGAAT GTCCTCTTGT CAAGGTCAGG	50
	GAACAGCACC CACAGAGGGC CTCTGGGTCC CTCTCTGCTC AACTCCCTCT	100
15	CTCTCGGTTC CTGCGAGGCT CATAGGGTGC AGGGCCCAGC AGAAGGACTG	150
	AGTOTTOCTO CTGGACTTCT GGTCCTGGTA GGCTGTGCTT CATGCTCTCC	200
20	TGTCACCTGT ACTGTAAGGA ACTATTATGA CAAACGCATA AAGAATATGA	250
20	CTTTG	255
	(2) INFORMATION FOR SEQ ID :578:	
25	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 270 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li></ul>	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :578:	
35	GAGGAGTCCA TGCCATCCTT GATGGAAAAG AAACTGAAGA GAAAAGACAG	50
	CCTGTGGAAG AAGCTCAAAG GTTCTTTGAA GAAGAAGAGA GAAAATATGA	100
	CATGATATCT TTGCTTTTGA GTTCCTCACG CTCTCTGAAT TTATTAGTTG	150
40	GACAATTCCA TATGCAGCAT TCTGCTTCAA TATANCTCTT NNGGTCTCTC	200

	TCTCTNNAAT ATTTGCCTGT AGGTAAAAGC AAGCTCTGCA TATCTGTACC	250
	TCTTGAGATA GTTTTGTTTT	270
5	(2) INFORMATION FOR SEQ ID :579:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 139 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :579:	
	GAGTTTTCAG AGGCCCGTGA GGACATGGCT GCCCTTGAGA AGGATTATGA	50
20	GGAGGTTGGG TGGATCTGTT GAAGGAGAGG GNAGAAGAGG AGAGGAATGC	100
	TAAAGTTAAA ACGTAATAAA GATGCTGCTC TTACGGAAG	139
	(2) INFORMATION FOR SEQ ID :580:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 168 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :580:	
35	GGCAGGAATA CATATAGTCA TCATTGCCAG ACTTAATATG AGAGGTGAAA	50
	TGTTCGATCC AATTTATTTC TTGGATAAGT TTTTCTTTCC TATNCCTNTN	100
40	GTTTTGATAA TATAATAAAG AAGATGAGGG GCCCA: A TATAGAGCTC	150
	CTGAGNGAGT TTTNGGAG	168

.. (2) INFORMATION FOR SEQ ID :581:

· 5	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 242 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :581:	
	CGGAGGGCCC TGTTTGGGAA AAATAGGATT TTAAAAATAT GGTTCATTAA	50
15	TTTAGGTTTT CTAACATCTA CTTGGGGATG TAGCCTCCAG TGAGGTCAGT	100
	TAAGTGGGAC AGAAACGGCA GAGGGAAGAG GTCTTTGCTT CCCCTGGGCC	150
20	CATTCTCCCT GGCTGCCAGC CCTTGAAGTC AGAACACCAT GGGAAAATTC	200
	AGGAGTCGGC ACTGTAGCCG TCAAGTGGCG CTACTTTCCA CA	242
	(2) INFORMATION FOR SEQ ID :582:	
25	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 37 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li></ul>	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :582:	
35	GCATTTTTCT TGTGTGCTGT TTATAATAGC AAAGCAG	37
	(2) INFORMATION FOR SEQ ID :583:	
40	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 179 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li></ul>	

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## (D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :583:	
	GGAACAAAGA AAATGTACAG AGTTATATGC GCTTTTTTTT GGTATGGGGG	50
	ACAAGAAACA CITACCAACA AAAATATTTC AACAACCCCA AAATAACTTA	100
10	CTCACAAATA TGCAAAATTA TCTATGGCAT AGTATTTCGC ACTCGATGAC	150
	ATTTAGAGAT AAAAAATCAA ATGGAGCTT	179
15	(2) INFORMATION FOR SEQ ID :584:	
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 186 base pairs	
20	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :584:  AACTGCCATG AAGTAACCTG AAGGAGGCGC TGACTGGAGG GATTGATTAC	50
	AGGATCGGAA CACTCCACAC TCGCCATTCT CTGCATATAC CGGTTAGCGA	. 100
30	GGCGAGCCTG GCGCTCTTCT TCGCGCTGAG CTAAAGCTAC ACACAATGCT	150
	TTGCGACCAC AATNCACCCT TCATTTCGTA ACTGCT	186
35	(2) INFORMATION FOR SEQ ID :585:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 180 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

303

	(xi) SEQUENCE DESCRIPTION: SEQ ID :585:	
	ACCCACGGTA CTTACATCCT ATGATATGGC CTGCAAACTA AACTACAAAC	. 50
5	GCACTCACAT CGCTATAATC CTTTTAAGGA CTTAAACTTT ACTCCATTAA	100
	GACTITIATG ACTICIAACA ACCICGCCAA CCICCICACC CCCCACTATA	150
10	CCTCGGAGAA CTTTCGCGTA ATAACCACGT	- 180
	(2) INFORMATION FOR SEQ ID :586:	
	(i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 183 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	• •	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :586:	
	ACCGACATCA CGANNGACTT GGTCTTAGTT GAGCAATTTG GCTAANNNNN	50
25		
•	NTNCTNNTTA GCACGTTCTG AGTCTGTGGG ATAGCTGCCA TGAAGTAACC	100
	TGAAGGAGGT GCTGGCTGGT AGGGGTTGAT TACAGGGTTG GGAACACTCG	150
30	AGANTGGCAT CCTGCATATA CTGGTTAGTG AGG	183
	(2) INFORMATION FOR SEQ ID :587:	
	(i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 280 base pairs	
	(B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	. ,	
40		

(xi) SEQUENCE DESCRIPTION: SEQ ID :587:

••	AGGTCAAGTC TACAGCTGGA GACACCCACT TGGGNGNANG AAGATTTTGN	50
	ACAACCGAAT NGTCAACCAT TTTAATTGCT GAGTTTAAGC GCACNTTAAA	100
5	GAAGGACATC AGNGAGAACA AGAGAGCTGT AAGACGCCTC CNTACTGCTT	150
	GTGAACGTGC TAAGCGTACC CTCTCTTCCA GCACCCAGGN CAGTATTNAG	. 200
	NTCGNTCTNT CTATGAAGGA ATCGACTCTN TACTCCATAC CNNNCCGATT	250
10	GAGACTGATG TGACNTTCCT GGGACTGNCA	280
	(2) INFORMATION FOR SEQ ID :588:	-
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 371 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :588:	
25	GGTGAAGAAA CTCCAGATAT CAAGGAATTG GGAAATCCTG GGCCAAACCA	50
	CCCCAAGATG ATTACACTGA AATGTAGTAT TAGTACTNCT GCCAGATCTC	100
30	TTTTTAACAT CATGTGCGTC TCTTGGGATC CAGCAAAAGT GTTAAGCCAC	150
	AATGCCCTTG TGCCTTTTAA TATACCACAG TGCCAGTTAA ACTAATATTT	200
	TNTTTTGTTG CTTTTTGGGG TATTTTCATT AGTATTTCAG CAAATCTCAT	250
35	GATAAAGGNC AAGGNCAAGA ACTNCAGAGN ACTGAGCAGA GAGGCTNGTG	300
	ATGAAANGTG AAGGCTTCNA CTGACTTTAN GCAGTGGCAG TCANGNTACT	350
40	GNGNNGCANG CTTANCTATG A	371
	(2) INFORMATION FOR SEO ID :589:	

305

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 184 base pairs

	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :589:	
10		
	GAGAGAGAAC ACTCCCCTCC ATCCCAGCAC TATGCACAGT TCACGGCTCA	50
	TATGCAAAGT GGAAGACACG TGGGACAAGA GCAAAGCACA AGTGACACAT	100
	······································	
15	GGTCCCTCTC TAACACCTCA GCACACCAAC CCTGACGCTC CCATCACAGA	150
	TOTAL TOTAL TOTAL CONTROL TO A	184
	TGCTGNTCAT TCTTNCACGG NCCCCTTTTA TAAT	104
	(2) INFORMATION FOR SEQ ID :590:	
20		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 243 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
23		
	(with apparence peraptrople and the sea.	
30	. (xi) SEQUENCE DESCRIPTION: SEQ ID :590:	
50	GGGGGCCCGC CGTNCACNCC CCCACACTCT TGGTAGGCAA TGCTTGTCCC	50
	· ·	
	NATATAGTTG NNGTCCTATC GAGTGACACT CTCGTTCATG GATANGGTGN	100
35	GTAAAACCCN TNGTNGCATC CNNATTGGGN GCANTGNGCC TNTCCCCTTN	150
33		
	AANGGTTTTT GCNTNCACTC GACCTNGGGA GGATTCAATG NACNNNCTNG	200
	ONLING WORK COMMONIMES CHINCKING THE CARCONICON ATT	243
40	CANTGGNCAA GCNTTGNTTG CNNGNATTGA GAACCCNCCA ATT	243
•••	(2) INFORMATION FOR SEQ ID :591:	

306

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 247 base pairs

	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :591:	
10	ATTCGCCCNN TAAGTAAGTC GTNATTANAC GCGACGNCTA CTACTGAGAC	50
	NCGCATGCGC TCTCTCTACA CTAAAGCTCG TCGCTNGNTN ACTTGCGNGN	100
15	NAAAAAAACC CCCTGGGNNC GCTTTTCACC CCCAAACTTT CAAATTCCGC	150
	CCCTTTNGGC NANGCCCAAC CANNCCCCCC CCCTTTTTNC CGNCCCANNC	200
20	TTNGGNCNTA ANNATTNAGN CGGNANGNNN GGGCCCCCGG CCAACCC	247
	(2) INFORMATION FOR SEQ ID :592:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 425 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :592:	
	GGAGGGGAGT AGAGGAAATT TTCATTCTGG AAAAAAATGC ATACTGTTTG	50
35	ATATATTACT CNTCATGCTT TCCACAGATA TTATACACAG ATATTATATT	100
	CCANGGATTA CGTTGCAATG TCTTCAAAAA TAGANAATTC ATTTTATATT	150
40	TCTNGATGAA ATATAATAGT ANCTNNGCTA CCTTTGGGAA TGTGACAAAA	200
	TACTATGATG ATTACAACTC ATTAAAGCAT AAATNTGCAT GATTTAACTN	250

	CATGTTCCTT CTATGANCTN CGTGGNATAT AGGCATATTT ATTAATGCTA	300
	TTTANGGCNT NNGTGCTTTG TAATGATTCG NCNTTAGGTG AAGGGNTACT	350
5	TTTNTNNTNC TTCNTAGTAG ATTNGNTTNN NTCTTTTTAA GAGGANTCNA	400
	NTTTCATGNG TAANCATCAT CTTTT	425
10	(2) INFORMATION FOR SEQ ID :593:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 258 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :593:	
20	·	
	CGCTGCATGC GTCAGCGCNA CGCGACGACA GCGCGCGCGA CGCGCGCGAC	50
	GCACAAAANA AATGCATGCC AACACGAANA TATGTGCACA CAAACGCAAA	100
25	CGCGTGTGAA CACATGCGCG CNNCGCGCNC GCGATNCAAA GCTGAAATGT	150
25	CGCGIGIGAA CACAIGCGCG CHNCGCGCHC GCGAINCAAA GCIGAAAIGI	150
	GCNNGNCNGT CGTGNGCGNA AATGTGAAAT GAACAAACAA CAATGAATGA	200
	ATGAATGTGA AAAAGAGNGN GNTTGAAAAT TNTANAGNNC CCCCCCNTNA	250
30	ANCAAAAG	258
	(2) INFORMATION FOR SEQ ID :594:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 215 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	

. 40

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	(XI) SEQUENCE DESCRIPTION: SEQ ID :594:	
	GACCCTAACA ATATGTACAA AAATATAAAA TGTAAATAAA AAATACAAAC	50
· 5	AAATTTCCTT TTTAAAGTAC TTTTAAGAAA AAAAGCAGGG CCTTGGAAGT	100
	TTTGGTTCTT TTTTCCTCCC CTGTTGCAAA TTCTCATGGT TTGGGTTGGG	150
10	TGGTGGAGAG CGCGTGTCAT CTGCGGGTGC CTGCCCACGT GGGCGGGCGG	200
10	CTCTCTACTC GAAGG	215
	(2) INFORMATION FOR SEQ ID :595:	
15	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 272 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li></ul>	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :595:	
25	GGGGCTGGTT TGGTCATCCG AGATCATTAA AAATGGCTGA CCCTAACAAT	50
	ATGTACAAAA ATATAAAATG TAAATAAAAA ATACAAACAA ATTTCCTTTT	100
30	TAAAGTACTT TTAAGAAAAA AAGCAGGGCC TTGGAAGTTT TGGTTCTTTT	150
	TTCCTCCCCT GTTGCAAATT CTCATGGTTT GGGTTGGGTG GTGGAGAGCG	200
	CGTGTCATCT GCGGGTGGCA CTGCCACGGT GGGCGGGCGG GCTCTCTACT	250
35	CGAAGGTGAC CACGTTTAGA TT	272
	(2) INFORMATION FOR SEQ ID :596:	
	(i) CROUPHOR OURDROUPDICTION.	

(A) LENGTH: 250 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

309

## (D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :596:	
	GACAAACTGT TGACACCCGG AGGCCTAAAC GAGGATTTCA GCTTCCATTA	5
	TGCCCAACTC CAGTCCAACA TCATTGAGGC GATTAATGAG CTGCTAGTGG	100
10	AGCTGGAAGG GACAATGGAG AACATTGCAG CCCAGGCTCT GGAGCACATT	150
	CACTCCAATG AGGTGATCAT GACCATTGGC TTCTCCCGAA CAGTAGAGGC	200
15	CTTCCTCAAA GAGGCTGCCC GAAAGAGGAA ATTCCATGTC ATTGTAGCAG	250
	(2) INFORMATION FOR SEQ ID :597:	
20	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 225 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul> (xi) SEQUENCE DESCRIPTION: SEQ ID :597:	
	CTGCCAAATA CTTTCTTCAC CAACTCATGA GGAGAGGGAA CATGCTGAGA	5(
30	AACTGATGAA GCTGCAGAAC CAACGAGGTG GCCGAATCTT CCTTCAGGAT	100
	ATCAAGAAAC CAGACTGTGA TGACTGGGAG AGCGGGCTGA ATGCAATGAG	150
35	TGTGCATTAC ATTTGGAAAA GATGTGAATC AGTCACTACT GGAACTGCAC	200
	AAACTGGCCA CTGACAAAAA TGACC	225
40	(2) INFORMATION FOR SEQ ID :598:	
40	(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 210 base pairs

310
(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :598:	
	(XI) BEGORNEE PROOKITION. ORG. ID	
	ACAAAACGCA GATATAAAAA AGTTACAAAG ATTTTTAGAT TTTCATTCAC	50
10		
	AAAAAAGTC ATTCACATTT TACACTATAC ACGTTATGAT ATAATACAGG	100
	AAAGTATTAT GTGCATTGTA AGAGAAGGAA AATAGAACTA CTAGATCACA	150
15	CGTGTTGTTC TGTGCTCTAA AATACCTAAA GGTGGATTCA TTTAATGCAA	200
		200.
	CACCAGGGAC	210
	(2) INFORMATION FOR SEQ ID :599:	
20	(1) CROUDNER CUIDACERDECERCO	•
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 116 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	′,	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :599:	
30	AAAGGAGTTG AGTACTGTAA ACGCAGAGCT ACATAGAAAA AACGGGCTTC	50
	IMMODITE NOTHER ACCOUNTS ACCOUNTED	50
	AAAAATCTGC ACAGAGGTTT GCTTGAGAAT TTAGCTACAC AAATATGTGT	100
35	AGAAGTGAAA AAAAAA	116
	(2) INFORMATION FOR SEQ ID :600:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 107 base pairs	
	(B) TYPE: nucleic acid	

(C) STRANDEDNESS: double

311

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :600:	
	ACAGTGTGTG CCCTGTCAGC TCCGCAAATT GGCAGTCACT ACGTTTGTGC	50
10	CCCCTGTAAC CTTGTGATCT TCACTGCCAC TAGCGATGAA GTCTTCATTA	100
10	TGGCCTC	107
	(2) INFORMATION FOR SEQ ID :601:	
15	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 173 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
20	(2) 10102001 111001	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :601:	
25	ACTGCTAGTG AAATTCACAT GACTCACAAT TCCCTTTAGC CAATGTTACC	50
	GAAGTCAGTG TCAAGAAAAC TTAACAGAAA AAAAAAAGCA CAGAGTGAGT	100
30	TCCTACCATA AAAATCCAGG CTGCCCTGTT TCCTAGCTCT AATATAAGCC	150
	ATTTTCTTTC CTTAGTGTAC CAA	173
	(2) INFORMATION FOR SEQ ID :602:	
35	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 216 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	

••	(xi) SEQUENCE DESCRIPTION: SEQ ID :602:	
	GGAAGAGAAC ACATACACGA GGACCAGTAC CTGATGAGGA CAAGAGAGAT	50
· 5	GGGAANNNGC TGTGGAATTC CTTTCGGCAC CCTGGATGTT AACCCCTGCT	100
	CAGGAAAGGG TGCATCTGTC TTCATCATGC CTCTCTCCC TCCTCCTCCA	150
10	GCCACCTCCC AAAGGCAGAG CTGCCGCAAC CTGCCTGGCC ATGTGGTGGC	200
10	AAGTACCCAG TAGGAG	216
	(2) INFORMATION FOR SEQ ID :603:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 213 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :603:	
25	GAAAAAACAA TCATGACAGC AACTCTCCTA ACCACAAAAA TCACATATGT	50
	TATCTTTCTT TCAGGACTAA TAATTAATAT TTAAGAGGAA AGCACATCAA	100
30	TTTCTAGGGC CCTTCTTGGG GAAAGGTTCA TATAATTTAG CATACATACA	150
30	TATTCAGTGA ATGCATTCAT ATATTACTAT ATAAACACTC TCAGCTACAA	200
	TGGTAATATA ATG	213
35	(2) INFORMATION FOR SEQ ID :604:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 219 base pairs	,
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :604:	
•_	GACATCTGAT CATCTCACTG GACGCCACAG GGGCAAGAGG GTGGTTTTCC	50
5	TGAAGCAGCT GGCTAGTGGC TTATTACTTG TGACTGGACC TCTGGTCTCA	100
	ATCGAGTTCC TCTACGAGAA CACACCAGAA ATTTGTCATT GCCACTTCAA	150
10	CARARTCGAT ATCAGCARTG TARRARTCCC ARRCATCTTA CTGATGCTTA	200
	CTTCAAGAAG AAGAGCTGC	219
1.5	(2) INFORMATION FOR SEQ ID :605:	
15	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 104 base pairs	
20	<ul><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	
20	(5) 101020011 12.10012	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :605:	
25	AGCGAACACG AGCACAGCGA GCGCACAGAG AGCAGCAGGG AGGGCAGCCA	50
	CCGCCGGGAC GCCGGCAGGG GCACGAGAAG GCAAGGAGCG GACACCCGNG	100
30	NNGA	104
	(2) INFORMATION FOR SEQ ID :606:	
	(i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 189 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

(xi) SEQUENCE DESCRIPTION: SEQ ID :606:

50

314

	AATAAAGCAT TCTCACAACC TTTGTTGGGT CAATGATTCC TTTTTACCAC	50
	ANNTACAGAA TCTCCACCAT AGCATCA1A CCAACTCTGA GGAACTTCGC	100
5	ATAATTCTTA ACTACAAAGA TCCTTCAACA CCCGCATTCT TACAATGTCA	150
	TCGCCGGAAT TTTGAGTGTT CTTTCAATAA CCTACANTA	189
10	(2) INFORMATION FOR SEQ ID :607:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 171 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	. (0)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :607:	
20		
	GGAAAAGNTC ATTACATAAG CACCAAGNCA TTGATTATGA TCCACCGGAA	50
		•
	GAGCTCGTAT TTATCCTTTG CTTTNATNTG AGACCAAGCT AGCCCTGAGT	100
25	AATTTTANNT GGTTCCTAAA ACATATGGCT TATCGTACTC TAAGAAAAAT	150
	GCCTTACGCA CATTCCTTTN T	171
	(A) THERMANIAN BOD ODD TO (CO	
20	(2) INFORMATION FOR SEQ ID :608:	
30	( ) CROUDNOR OUR DECEMBER OF CO.	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 184 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(0) 10.0200. 12	
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :608:	

GGAAAAGTNC GCATATAGCG TGCNATAATA CTACGNCTAA GGAGAAACAA

	TTTCCTACAC ATAAAGTAGT GAGAACATCA TCCTATAACA GGGAACTGTG	100
	ATTATTTAAA AAACGCAGAA CTTATTTATT TGGCTTTAGA AATAACTGCA	150
. 2	TACAATGTCA TAAGTCGAAA AGAACTCAAA ATAA	184
	(2) INFORMATION FOR SEQ ID :609:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 191 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :609:	
20	GGGGACAGCT NNNNNGTTGT TTTGGAGCCT GTTGACTTTG TATTCTCTGC	50
20	CTGTGATTTT CNNTTCTAAA TGAAACTCCA TGTNNNAACC AGGACGAAGN	100
	TGAGAAGGAA AACGCCAAAT GCTTTGGTTA TTAGAGNTTA ATAGGNAAGC	150
25	TCTGTTACAC TAGGTGTAGA GTTCCAGAAT GTTCTTTTGT T	191
	(2) INFORMATION FOR SEQ ID :610:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 172 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :610:	
40	GCAACTGTGC AAACATCCAT CAGTGTGGAG GAATGGTAAA CTTGGTACAT	50
40	CCATGCANTN GNNNCATATT TTTGTGGTTA AGATNNTGAT GTATAGGCAT	100

•	GGAATGTTAT CAAAAGCACA TTAAGTGGTC AAAGCCAGAT ACAGAAGAGT	150
	AGGTATGATT TTATAGGNAT AA	172
5	(2) INFORMATION FOR SEQ ID :611:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 51 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :611:	
	TCCACCTTAC AGACCTGATT TGGCTGCTTC TGACGTCTGT TTCCTAATCT	50
20	т	51
20	(2) INFORMATION FOR SEQ ID :612:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 60 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	:	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :612:	
	CGCCTGAAAC TTTGAGGATA AACTTTTTCA AAAAAATAAA ACAGTATCTC	50
35	TTAATCACTG	60
	(2) INFORMATION FOR SEQ ID :613:	
	(i) SEQUENCE CHARACTERISTICS:	,
40	(A) LENGTH: 75 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

317

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :613:	
	TTGAAGCTGG GAGGCAGAGG TTGCAGCGTG CAGAGTCGTG CCACTGCACT	50
	CCTGGGCGCA CAGCGAGACT GTCTC	75
10	(2) INFORMATION FOR SEQ ID :614:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 25 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :614:	
	ACGGGATTCT CTTCTTCGGC CGCCA	25
25	(2) INFORMATION FOR SEQ ID :615:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 72 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :615:	
	GCAGTGTACT ATGTTCGCAT CTGTGAATAG CCACTGCACT CTAGCCTGGA	50
40	TAATATAGTG AGAACCCATC TC	72
40	(2) INFORMATION FOR SEC ID .616.	

	• •	(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 137 base pairs	
		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	
5		(D) TOPOLOGY: linear	
		(xi) SEQUENCE DESCRIPTION: SEQ ID :616:	
10			
	4	TCTAACTGAT TTCAAAGCAA ACTCTCTCTT AATTAGGCTG CCTCTCCAGG	50
		GGAAATTTAG TGGCAGGGTC CCAGTGAGCC TGTAAGAAGT GTTCTACTCA	100
			200
15		CCAGAGTCAC TACTCCAGGT TGAGGACATG AGGCAGG	137
		(A) THRONYLON DOD ODG TO (C17)	
		(2) INFORMATION FOR SEQ ID :617:	
		(i) SEQUENCE CHARACTERISTICS:	,
20		(A) LENGTH: 139 base pairs	
		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
25		•	
		(xi) SEQUENCE DESCRIPTION: SEQ ID :617:	
		GCAGGGCAGT CTTGGTGTGC AGCCCCTCTC CTCTCTGTCC CCTGACACTC	50
30			
		CACAGTGTGC CTGCAACCCA AGTGGCCTTA TCCGTGCAGT GGTGGCAGTT	100
		CAGAAATAAA GGGCCCATTT GAGGGATGAC CGCATTCAC	139
35		(2) INFORMATION FOR SEQ ID :618:	
		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 178 base pairs	,
		(B) TYPE: nucleic acid	
40		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :618:	
	TCTTCTTACT ACACTGGAAG TCTGAACTGG GTGCCTGTTA CCGTCGAGGG	50
5	TTACTGGCAG ATCACCGTGG ACAGCATCAC CATGAACGGA GAGGCCATCG	100
	CCTNCNCTGA GGNCNGCCAG GCCATTGTTG ACACCNNCAC CTCTCNNCTG	150
10	ANNUNCCCAA CCAGCCCCAT TUCCAACA	178
	(2) INFORMATION FOR SEQ ID :619:	
	(i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 73 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :619:	
25	ACCACCCCTT CCTTTTCTTC ATCCAGCACA GCAAGACCAA CGGGATTCTC	50
23	TTCTGCGGCC GCCACCGCGT GGA	73
	(2) INFORMATION FOR SEQ ID :620:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 139 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
,	(xi) SEQUENCE DESCRIPTION: SEQ ID :620:	
40	TGCCTTACAC ACTCAGGGAG ACCTCGGGTT GTACCTAGGC CTAGTGGACA	50
	AACTTTGGTA GAGGGTTCGG TACGACTTAC GACACCTGGC CCTACGTCAT	100

	AGTCCGTACC CTCAGTAACA GTGTAGTAGC TCTTCCTGT	139	
	(2) INFORMATION FOR SEQ ID :621:		
5	(i) SEQUENCE CHARACTERISTICS:		
	(A) LENGTH: 123 base pairs		į
	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double	•	÷
	(D) TOPOLOGY: linear		
10			
		•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :621:		
15	TTCAAAAACA ACTTTATTCA TGACACATAT TAANNNAAAA CCCCACCCCT	50	
	GGAAATGAGC TAAAAAAATA AACAAAATCC ACCTCCCACC TCCCTGNNCC	100	
	CACTTCCTCC CATGCCCTCC AAA	123	
20	(2) INFORMATION FOR SEQ ID :622:		
	(i) SEQUENCE CHARACTERISTICS:		
	(A) LENGTH: 173 base pairs		
25	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear		
30			
	(xi) SEQUENCE DESCRIPTION: SEQ ID :622:		
	CACCCAAGAC CATCCTTTAT TGTAGTATTA GTTCATGGTA ACTGCATGAA	50	
35	AAAACATTTC NNGAGGAATT TTCAATTTCC AGCTTAAAGA ACNNNCCCAC	100	
	CAACATAACC AATTTATGAA ANNNAATTCA TTAAAAGGTA TAGAACCTCT	150	~
	TGTNNNCATG ATGGCAAGGG ACA	173	7
40			,
	(2) INFORMATION FOR SEQ ID :623:		

· (i) SEQUENCE CHARACTERISTICS:

	(A) LENGTH: 112 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :623:	
10		
	TTTATTGTAT CATGAGGCAT TGAAACATCT GAATAAATCA ATGTCTGGGC	50
		100
	GGTGAAGGCA GCTGCTTTCT CCTTCACTTC TTTGGGTTAC TAGAGCAACT	100
15	TGTCAGTAGA TT	112
	(2) INFORMATION FOR SEQ ID :624:	
20	(i) SEQUENCE CHARACTERISTICS:	
20	<ul><li>(A) LENGTH: 119 base pairs</li><li>(B) TYPE: nucleic acid</li></ul>	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(2) 20102001 2010000	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :624:	
	ACTECTTCTG CCCCCGTTCT TCTAGTGAGA GGGGCGGACA AGGGGGCGGC	50
30	ACTOUTED COCCOSTOR TOTACTORION COCCOSTOR MODERATOR	
	GAAAAGAGGA GAAAGGAGAG AAACAAGAGT CGAGGGGGAC AGGGGAGTCG	100
	AGGTCTGCAT CCCCTCCCC	119
25	(2) INFORMATION FOR SEQ ID :625:	
35	(2) INFORMATION FOR SEQ ID .023.	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 39 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEO ID :625:		
	AACAGCACGG AGATTGCGTT TATATATCAG ACCAAGCTC	39	
·5	(2) INFORMATION FOR SEQ ID :626:		i
10	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 72 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>		*
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :626:		
	CCAGCGCCGA GGTTGTATAT TTCTAGGTGC AGGTATATGA TTGCCATATA	50	
20	ATAAAAATCT GAAAACATCC CC	72	
	(2) INFORMATION FOR SEQ ID :627:		
25	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 153 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>		•
30			
	(xi) SEQUENCE DESCRIPTION: SEQ ID :627:		
	CCTCCGCCGG AGCTATCTGC ACTACATCCG CAAGTACAAC CGTCTTCGAG	50	
35	AAGCGCCACA AGAACATGTC TGTACACCTG TCCCCCTGCT TCAGGGACGT	100	
	CCAGATCGGT GACATCGTCA CAGTGGGCGA GTGCGGCCTC TAGACAAGAC	150	r
40	AGT	153	•

(2) INFORMATION FOR SEQ ID :628:

(i) SEQUENCE CHARACTERISTICS:

	(A) LENGTH: 108 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :628:	
10		
	AAAAGAAGTA GGTCGTGTCG TTCTGGTTGC CCTAAGAGAA GAAGANNNCG	50
	GTGGCCACCT CGAGGTTAAG AGGGATATCA CTCAGCATAA TGTTAAGTGA	100
15	CCGGCAGC	108
	(2) INFORMATION FOR SEQ ID :629:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 95 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :629:	
	TCGCACCACT AGAAANCACC GTGACTGAGA AGAATGATGT GACCTTCAGA	50
30	CTTGACCONN GGACAATGNC AGCTCCCAAT GNCCGTCTAG TGGCA	95
	(2) INFORMATION FOR SEQ ID :630:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 139 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

	(xi) SEQUENCE DESCRIPTION: SEQ ID :630:		
	CCAGCNCCGA AAAGCCAAGA CTTCATCAAC TACATAGGTC TTACCATTGA	50	
5	CCTAAGATCA ATCTGAACTA TCTTAGCCCA GTCAGGGAGC TCTGCTTCCT	100	
	AGAAAGGCAT CTTTCGCCAG TGGATTCGCC TCAAGGTTG	139	
	(2) INFORMATION FOR SEQ ID :631:		
10	41) CROUDING CUARACTERISTICS.		
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 117 base pairs		
	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double		
15	(D) TOPOLOGY: linear		
••	(5) 221 22 22 22 22 22 22 22 22 22 22 22 22		
	·		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :631:		
20			
	CCACCGCCC GAGCGAATGT AACCCGGCCT TGGACGACCC GACGCCGGAC	50	
	TACATICA NO TOCHECOCANT CATCHEOLO ATCHNONICO TOATCOTTA	100	
	TACATGAACC TGCTGGGCAT GATCTTCAGC ATGTNCNNCC TCATGCTTAA	100	
25	GCTGAAGTGG TGTGCTT	117	
	(2) INFORMATION FOR SEQ ID :632:		
	(i) SEQUENCE CHARACTERISTICS:		
30	(A) LENGTH: 161 base pairs		
	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear		
35			
33			
	(xi) SEQUENCE DESCRIPTION: SEQ ID :632:		
			3
	CCAGCNCCGA AAAGCCAAGA CTTCATGAAC TACATAGGTC TTACCATTGA	50	
40			
	CCTAAGATCA ATCTGAACTA TCTTAGCCCA GTCAGGGAGC TCTGCTTCCT	100	

	AGAAAGGCAT CITICGCCAG IGGATICGCC TCAAGGTIGA GGCCGCCATI	100
	GGAAGATGAA A	161
5	(2) INFORMATION FOR SEQ ID :633:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 97 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :633:	
	CCTGCNCCGA CGATGCCCAG AATCCAGAAC TTTGTCTATC ACTCTCCCCA	50
20	ACAACCTAGA TGTGAAAACA GAATAAACTT CACCCAGAAA AACAAAC	97
20	(2) INFORMATION FOR SEQ ID :634:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 178 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :634:	
	CCAGCNCCGA AGCATTGGAT GCTTGACAAA CTAACGGGTG TATTTGCACC	50
35	TCGTCCATCG ACAGGTCCCC AGAAGCTGAG GGAATGTCTT TCCTCTGATC	100
	TTCTTCCTCA GGAATAGACT CAAGTATGCG TTGACTGGAG ATGAGGTAAA	150
	GAAGATATGT ATGCAACGTT CATTCAAA	178
40	(2) INFORMATION FOR SEQ ID :635:	

	(I) SEQUENCE CHARACTERISTICS.	
	(A) LENGTH: 90 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :635:	
10	CCTGCNCCGA TGCACCCGCC ATCCAGCCTG TCCTTTGGAC CACGCCACCC	50
	CTCCAGCATG GTCACCGCCA TGGGTTAGAN CCCTGCTCGA	90
15	(2) INFORMATION FOR SEQ ID :636:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 101 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :636:	
	CAGGAGACAC AGACAATAGT CACTACATCA CAGCCTTGTT CTTTCCGAAG	50
30	GATAAAATGT CATTCAAGAA TGGGGTGAGG TGGTTAGAGG GACTAGGTAC	100
	<b>T</b>	101
	(2) INFORMATION FOR SEQ ID :637:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 70 base pairs	
	(B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

	(xi) SEQUENCE DESCRIPTION: SEQ ID :637:	•
	CCGAGCACGA GACCCTGATG CACATTCTAA AATAAAAGAA TGATGCACAT	50
5	TTTAATAAAG CACAGCACAA	70
	(2) INFORMATION FOR SEQ ID :638:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 160 base pairs	
	(B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :638:	
20	CCGAGCANAN TCTAACCCGG CCTTGGACGA CCCGACGCCG GACTACATGA	50
20	ACCTGCTGGG CATGATCTTC AGCATGTGCG GCCTCATGCT TAAGCTGAAG	100
	TGGTGTGCTT GGGTCGCTGT CTACTGCTCC TTCATCAGCT TTGCCAACTC	150
25	TCGGAGCTCG	160
	(2) INFORMATION FOR SEQ ID :639:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 138 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :639:	
40	CCGAACAAAT GTACGGAATG TGTGAGTCCC TCTGGAGCCC AACATGGATC	50
40	CGGATCACCT GTTTGAAACC ATCTCCCAAG CCATGCTGAA TGCTGTGGGC	100

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	CGGGATGCAT GTGCAGGCAT GGAGTCATTG TCACATCA	138
	(2) INFORMATION FOR SEQ ID :640:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 80 base pairs	•
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :640:	
15	CCGACCACCC CTTCCTTTC TTCGTCCATC CAGCACAGCA	50
	GATTCTCTTC TGCGGCCGCC ACCGCGTGGA	80
20	(2) INFORMATION FOR SEQ ID :641:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 100 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :641:	
30	AACTAAACTG TTACCTTCCC TCGCTCCACA GAAGAAGACA GCCAGCTTCA	50
	GGGGTCCCTG TTGCTGGCCA AGCCAGTGAG CCTGCTGGGA GGCTGGTCCA	100
35	(2) INFORMATION FOR SEQ ID :642:	
	(i) SEQUENCE CHARACTERISTICS:	<b>'</b>
•	(A) LENGTH: 77 base pairs	•
	(B) TYPE: nucleic acid	2
40	(C) STRANDEDNESS: double	

(D) TOPOLOGY: linear

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	(xi) SEQUENCE DESCRIPTION: SEQ ID :642:	
_	AGAGGACAGA AAGGAACAGA ATGATCTTCC TACNCACAAC ACAAACGTCA	50
5	GTTAATGTTC CATCCATGCT GCTTAAA	77
	(2) INFORMATION FOR SEQ ID :643:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 127 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :643:	
20	CCAGCGCCGA GAGCAGCCCC AGTAGCAGCN CATGGCCGGG TCCAACGCCT	50
	ACATCGACAA CCTTCATGGC GGACGGGACC TGTCAGGACN GGCCATCGTG	100
25	GGCTACAAGG ACTCGCCCTC CGTCTGG	127
23	(2) INFORMATION FOR SEQ ID :644:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 116 base pairs	
30	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		,
,,	(xi) SEQUENCE DESCRIPTION: SEQ ID :644:	,
	GTAGCCAGAC CACAACACCG AGTTGTACCC AGATAGCTGG GATTGGAAGT	50
40	GAGGAGGTTT CTCACCCCAC AGATAACCCA AGACACAAAT GTGCAATTAA	100

AAGTTTATTT TAGACC

	(2) INFORMATION FOR SEQ ID .545:		
	(i) SEQUENCE CHARACTERISTICS:		
	(A) LENGTH: 182 base pairs		
 5	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double		خ
	(D) TOPOLOGY: linear		
	. ,		
10			
	(xi) SEQUENCE DESCRIPTION: SEQ ID :645:		
	CCACCACCC ATTCGTGACC AAGAAGGCTC TGTGCATTCG GGTTTTCCAG	50	•
15	GAGACTCAAA AGCCGAAGAA GCGAAGAAGA GCCTTAAAGG CTGCAGCAGC	100	
	CAGAAAAACA AGCAAAGGAG GAACCCAGAC AGCCCTGCAA AGCATACAAG	150	
	ACACTCAAGA CAGCAATTAA TCTGTCATCA TT	182	
20			
	(2) INFORMATION FOR SEQ ID :646:		
	(i) CROUDING CUIDICEDE CONTRACTOR		
	(i) SEQUENCE CHARACTERISTICS:		
25	(A) LENGTH: 66 base pairs		
2.5	(B) TYPE: nucleic acid (C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear		
	(b) TOPOLOGI: Timear		
30	<del></del> -	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :646:		
	(11) 02202102 22001111011. 220 12 1040.		
	CCAGCGCCGA GGTTGTATAT TTCTAGGTGC AGGTATATGA TTGCCATATA	50	
	Total Indiana Indiana Indiana	50	
35	ATAAAAATCT GAAAAC	66	
		00	
,	(2) INFORMATION FOR SEQ ID :647:		
	-		*
	(i) SEQUENCE CHARACTERISTICS:		
40	(A) LENGTH: 93 base pairs		. *
	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double		
	•		

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(xi) SEQUENCE DESCRIPTION: SEQ ID :647:

(D) TOPOLOGY: linear

	CAAGACAATA GTCACATCAT CGCAGCCTTG TTCTTTCCGA AGGATAAAAT	50
	GTCATTCAAG AATGGGGTGA GGTGGTTAGA GGGAGTAGGT ACT	93
10		
	(2) INFORMATION FOR SEQ ID :648:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 114 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	•	٠
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :648:	
	CCCCTTTTG TCCCCACTGA GATGTATGAA GGTTTTGGTC TCCCTGGGAG	50
25	TGGGTGGAGG CAGCCAGGGC TTACCTGTAC ACTGACTTGA GACCAGTTGA	100
	AAAGTGCACA CCTT	114
30	(2) INFORMATION FOR SEQ ID :649:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 81 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID :649:	
40	CTGCNCCGAC CACCCCTTCC TTTTCTTCAT CCAGCACAGC AAGACCAACG	E^
	DISCHARGE CHOCOSTICS IIIISIICAI CONSCINCISC AMBRICANCE	50

	GGATTCTCTT CTGCGGCCGC CACCGCGTGG A	81	
	(2) INFORMATION FOR SEQ ID :650:		
5	(i) SEQUENCE CHARACTERISTICS:		
	(A) LENGTH: 159 base pairs		
	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double		.•
	(D) TOPOLOGY: linear		
10			
	(xi) SEQUENCE DESCRIPTION: SEQ ID :650:		
15	AGGAGENCEG ACAAAAGACA CATTGGACET GTCAGETECT CTGTTTCACC	50	
	AAGCAGACAC AATAACCTTA CCAACAAAGC AGAGTAAGCC AAGTGCCTCT	100	
20	GTGTGACACC ACCGCATNNT GATGACGCAT AATAAAAATA TAACTAATTT	150	
20	AGACTAGAG	159	
	(2) INFORMATION FOR SEQ ID :651:		
25	(i) SEQUENCE CHARACTERISTICS:		
	(A) LENGTH: 78 base pairs		
	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear		
30	·		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :651:		
35	CCGACCACCC CTTCCTTTTC TTCATCCAGC ACAGCAAGAC CAACGGGATT	50	
	CTCTTCTGCG GCCGCCACCG CTGGAGCT	78	3,
	(2) INFORMATION FOR SEQ ID :652:		_
40	·		٠
	(i) SEQUENCE CHARACTERISTICS:		
	(A) IPNCTU. 100 base pairs		

(C) STRANDEDNESS: double

	(D) TOPOLOGY: Timear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :652:	
10	CCGACAGACG GTCATTGATT ACAACGGGGA ACGCACGCTG GATGGTTTTA	50
10	AGAAATTCCT GGAGAGCGGT GGCCAGGATG GGGCAGGGGA TGATGACGAT	100
	CTCGAGGACC TGGAAGAAGC AGAGGAGCCA GACATGGAGG AAGACNATGA	150
15	TCAGAAAGCT GTGAAAGATG AACTGTAATA CGCAAAGCCA GACCCGGG	198
	(2) INFORMATION FOR SEQ ID :653:	
20	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 224 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	
25	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :653:	
20	CCGAAAAGCC AAGACTTCAT GAACTACATA GGTCTTACCA TTGACCTAAG	50
30	ATCAATCTGA ACTATCTTAG CCCAGTCAGG GAGCTCTGCT TCCTAGAAAG	100
	GCATCTTTCG CCAGTGGATT CGCCTCAAGG TTGAGGCCGC CATTGGAAGA	150
35	TGAAAAATTG CACTCCCTTG GTGTAGACAA TACCAGTTCC ATTGGTGTTG	200
	TIGCTATAAT AACACTITTC TTTT	224
40	(2) INFORMATION FOR SEQ ID :654:	
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 226 base pairs	

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :654:	
	CCGCCTCAGA CTCTGGACCA GCCACTGTCC CAGAAGCCAG GCCGGGCAGT	50
10		
	GGCCTTCTCC ACTCCCCTCT GACTTCTCCA AGGGGCTCAG TGGCCAGTGC	100
	CCCCCAGGAG GCTCCACCCT CAACTCAACC CAAGCAAGAG GGACAGATGA	150
		130
15	AAAACAAAAT CCAATCAGGG CGATAAATGG CGGGGGGTTT AATTTGGTTT	200
	CTGAGCGCAT AAAGCTAAGG AGGGGT	226
	(2) INFORMATION FOR SEQ ID :655:	
20	(e, emention tell beg 15 (eds)	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 167 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :655:	
30		
	TTAAAAAAAT TCCCCCCTTT AATTGACCAA AGTAAAGCCA TGACATTTCA	50
	THE COMPANY OF THE PROPERTY OF	
	TTTGGTAACC TGTTTAGAAT TATAAAAATC ATTTCATTTG GCCCAGCCCA	100
35	TACGCCCAAG AGAAAACTTC CAGACTTTTC TGATGCCATC CAGTTTTGTT	150
	CTTACAAAAT GCATATT	167
40	(2) INFORMATION FOR SEQ ID :656:	
70	(i) SEQUENCE CHARACTERISTICS:	•
	(A) LENGTH: 72 base pairs	
	· · · · · · · · · · · · · · · · · · ·	

335

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	·	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :656:	
	CCACCCCTTC CTTTCTTCA TCCAGCACAG CAAGACCAAC GGGATTCTCT	50
10	TCTGCGGCCG CCACCGCGTG GA	72
	(2) INFORMATION FOR SEQ ID :657:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 178 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :657:	
25	AGAGGGTTTT CTATATGTAA TTCTTTTATT CTGTAAAAGG TAACAAAATA	50
	TACAGAACAA AAAAACTTTC CCTTTTTAAA ACTAATGTTA CAAATCTGTA	100
30	TTATCACTTG TATATAAATA GTATATAGCT GATCATTAAT AAGGTGTATA	150
	GTACAATGTA TTCTAAAACT GTTCCGCC	178
	(2) INFORMATION FOR SEQ ID :658:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 76 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

	(xi) SEQUENCE DESCRIPTION: SEQ ID :658:	•
	CCGACCACCC CTTCCTTTC TTCATCCAGC ACAGCAAGAC CAACGGGATT	50
5	CTCTTCTGCG GCCGCCACCG CGTGGA	76
	(2) INFORMATION FOR SEQ ID :659:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 68 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :659:	
20	GCCAGCGCCG AGGTCGCATA TTTCTAGGCG CAGGTATATG ACTGCCATAT	50
20	AACAAAAACC NTGAAAAC	68
	(2) INFORMATION FOR SEQ ID :660:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 151 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :660:	
35	CCCAAACTTC TTTAAAAATC AAGTAATGTT TACAAGAAAG AATAAAATCT	50
	TAATCCTTTT CACTTTTAAA GACAATCAGA TAAGATTACC CACTGCGATT	100
40	AAACACTGAT CAAACTCAGT TGTCCTTACG TTAGCATTAC TCTGTCATAG	150
40	c	151

	(2) INFORMATION FOR SEQ ID :661:	•
5	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 245 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :661:	
	AGGCACTGAC CCCTGCCACC CCTCACTGCA TTAACTTCAG CCACGTCTCC	5
15	TCCTTCCTCT GCGCTTCCAG TGATAAGGGT ACTGTCCATA TCTTTGCTCT	10
	CAAGGATACC CGCCTCAACC GCCGCTCCGG CCTGGCTCGC GTGGGCAAGG	150
20	TGGGGCCTAT GATTGGGCAG TACGTGGACT CTCAGTGGAG CCTGGCGAGC	206
20	TTCACTGTGC CTGCTGAGTC AGCTTGCATC TGCGCCTTCG GTGCG	24
	(2) INFORMATION FOR SEQ ID :662:	
25	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 72 base pairs  (B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :662:	
35	GCCAGCGCCG AGGTCGCATA TTTCTAGGCG CAGGTATATG ATTGCCATAT	50
	AATAAAAACM TGAAAACACC CC	72
40	(2) INFORMATION FOR SEQ ID :663:	
70	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 88 base pairs	
	\***	

	. (5)	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :663:	
	(NI) DIEGINOL DEGINE DEGINE DE LE COST	
	GCCTGCGCCG ACGATGACCA GAATCCAGAA CTTTGCCTAT CACTCTCCCC	50
10	GCCIGCGCCG REGALERICA GARLEGICAN DITTECOLAR CADIOLOGO	30
10	AACAACCTAG ACGCGAAAAC AGAATAAACT TCACCCAG	88
	ANCHARCING ACGCGARANC MORNIAMOT TONOCOMO	00
	(2) INFORMATION FOR SEQ ID :664:	
	(2) INFORMATION FOR SEQ 15 .004.	
15	(i) SEQUENCE CHARACTERISTICS:	
13	(A) LENGTH: 223 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(b) ToroLog1: Timeat	
20		
	·	
	AND SPAURNOR DECORPORADA SEO TO ASSA.	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :664:	
25	COOMCOOCC ACARACAARA COMCORCOCA AMMONCOACA COOMCOOCCA	50
25	GCCTGCGCCG ACAAACAAAA CCTGGAGGCC ATTCTGCACA GCCTGCCCGA	50
		100
	GAACTGTGCC AGCTGGCGGT GAGGGCTGCC CAGATCCCCG GCACACACTC	100
		150
30	CCCCACCTGC TGTTTACATG ACCCAGGGGG CGCACACTAC CCCACAGGCG	150
30	CGCCCATACA GACATTCCCC GGAGCCGGCT GCTGCGAACT CGACCCCGTG	200
	COCCCATACA GACATICCCC GGAGCCGGCT GCTGCGAACT CGACCCGTG	200
	CGGATAGTCA CACTCCCTGC CGA	223
	COGNINGTON CHOICECISE CON	223
35 %	(2) INCODUCTION FOR CEO ID . (65).	
<b>35</b> /	(2) INFORMATION FOR SEQ ID :665:	
	(i) CDOUDNOR CUADACMEDICATOR.	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 70 base pairs	
40	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :665:	
_	GCCAGCGCCG AGGTTGCATA TTTCTAGGCG CAGGTATATG ATTGCCATAT	50
5	AATAAAAATC TGAAAACACC	70
	(2) INFORMATION FOR SEQ ID :666:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 118 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :666:	
20	GCCAGCGCCG ACCGCCCCAA AAATACTCCC ACCGGGATCA GGGCGATTAA	50
	TGAAGACTCA ACGGGGACTA AAAAGGGGGCC CCAAAAAAAA CCAAACCACC	100
25	TTTCTACGTA CCGTATAG	118
23	(2) INFORMATION FOR SEQ ID :667:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 88 base pairs	
30	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :667:	
	GCCAGCGCCG ACGATGCCCA GAATCCAGGA CTTTGCCTAT CACTCTCCCC	50
40	AACAACCTAG ACGCGAAAAC AGAATAAACT TCACCCAG	88
	(2) INFORMATION FOR SEQ ID :668:	

340

	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 59 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
<i>.</i>	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :668:	
	GCCACCGCCG ACTCCAGGCA CTCACTCAAA CTTGATCTTC AACTCTGCAT	50
	ACAAGCAGA	59
15	(2) INFORMATION FOR SEQ ID :669:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 223 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :669:	
	GCCTGCGCCG AACAATATA CAGAATGCGC GAGTCCCTCT GGAAGCCCAA	50
30	CATGGATCCG GATCACCTGT TTGAAACCAT CTCCCAAGCC ATGCTGAATG	100
	CTGCGGACCA GGATGCAGTG CCAGGCATGG GAGTCATTGC CCACATCACC	150
	GAGAAGGACA AAATCACCAC CAGGACACTG AAGGCCCGAA TGGACTCGCC	200
35	CTGCTCCCAG AGCCCACTTT TTT	223
	(2) INFORMATION FOR SEQ ID :670:	
	(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 37 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

ś	(xi) SEQUENCE DESCRIPTION: SEQ ID :670:	
	GCCAGCGCCG AAAACACACA CTTTGCTTCT TACCTGC	37
••	(2) INFORMATION FOR SEQ ID :671:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 37 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :671:	
20	GCCAGCGCCG AAAACACACA CTCTGCTTCT TACCTGC	37
	(2) INFORMATION FOR SEQ ID :672:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 59 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :672:	
35	GCCACCGCCG ACTCCAGGCA CTCACTCAAA CTCGATCTTC AACTCTGCAT	50
	ACAAGCAGA	59
40	(2) INFORMATION FOR SEQ ID :673:	
40	(i) SPONENCE CHARACTERISTICS:	

(A) LENGTH: 177 base pairs

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
S		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :673:	
	GCCTGCGCCG ANGCATTCCC TTTGACCTGA GTCTGCAGCA GGTCCCTTTT	50
10	GCGCTTCCTT CCCCTCAGGT AGCCTCTCTC CCCCTGGGCC ACTCCCGGGG	100
	GTGAGGGGGT TACCCCTTCC CAGTGTTTTT TATTTCCGTG GGGCTCACCC	150
15	CAAAGTATTA AAAGCAACTT TGCAATT	177
	(2) INFORMATION FOR SEQ ID :674:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 77 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :674:	
30	GCCTGCGCCG AGCACAAGAC AATGACGAAC ATTTTAAAAA AAAAGAATGA	50
	CGCACATTTT AATAAAGCAC AGCACAA	77
35	(2) INFORMATION FOR SEQ ID :675:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 176 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	

•	(xi) SEQUENCE DESCRIPTION: SEQ ID :675:	
	GCCAGCGCCG ACACCCAGAG ACTACAGTAC TTAGGGGTTA CACACAACAG	50
5	CCGTAACTGG CGGCTATCTG TTCATAACAA ACAAACCATA GCATATTTAC	100
	ACCECATORO ATCEAETERT TATAGARATO CATACACAC COGATTECAT	. 150
10	AAAATCTTTT TTTAGGAAAA AAACAC	176
10.	(2) INFORMATION FOR SEQ ID :676:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 141 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	·	
20	A LA CHANGE PROPERTY OF THE 177	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :676:	
	GCCAGCGCCG ACGCCCAGAG AATACAGTAC TTAGGGGTTA CACACAACAG	50
25	CCGTAACTGG CGGCTATCTG CTCATAACAA ACAAACCACA GCATATCTAT	100
	ACCGTATCAC ATCGAGTGAT TATAGAAATC CACAGAGAGA C	141
	(2) INFORMATION FOR SEQ ID :677:	
30		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 365 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :677:	
40	• • • •	
	CTCTGAACAG ACACGAAGCT GCCCCTCGTA CAGCCACTCG GGCGCTGACC	50

366

	ACCAGGGAAG GCAAAGGCAT AGGACTTCCA CACAGTCCAG ACACTGCACG	.100
	CTGACAAGCG CCTCCGCGGC GGCTGCGAGC CGGACTCAGG CGGATCTTGA	150
· 5	CAGCCTTGCC CGCGAGTGCC CGGGGATAGA ACCCGTGCGC GTGGACCTAG	200
	GTGACTGGGA GGCCACCAAG CAGGCACTGG GCAGCGTGGG CCCCGTGGAC	250
	CTGCTGGAGA ACAACACCAC CGTCGCCCTG CCGCAGCCCT TCCAGGAGGT	300
10	CACCAAGGAG GCCTTCGACA GATCCTTTGA GGTGAGCTTG CGTGCGATCA	350
	TCCAGGTGCT GTAGA	365
15	(2) INFORMATION FOR SEQ ID :678:	
20	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 366 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul> (xi) SEQUENCE DESCRIPTION: SEQ ID :678:	
	GCCTGCCCG ACACGAAGAT GACCCTCGAC AGCCGCCGGG CGCTGATCAC	50
	CAGGGAAGGC AAAGGCATAG GACTTCTGCA CGGTCCAGAC CCATGTACGC	100
30	GACGGGCGCC TNCGCGGTGG CTGCGAGCCG GATTCAGGCA GATCTTGACA	150
	GCCTTGCCCG CGAGTGCCCG GGGATAGAAC CCGTGTGCGT GGACCTNGGG	200
35	TGACTGGGAG GCCACCAAGC AGGCACTGGG GTAGCATGGG CCCCGCGGAC	250
	CTGCCGGAGA ACAATACCAC CGCCGCCTNT GCCGCAGTCT TTCCCGGAGG	300
40	TCACCAAGGA GGCCTNTTGA TAGATCTTTT GAGGTGAGCT TGCGTGCGGT	350

CATCTAGGTG CTGTAG

345

	(2) INFORMATION FOR SEQ ID :6/9:	
	(i) SEQUENCE CHARACTERISTICS:	
_	(A) LENGTH: 253 base pairs	
5	(B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :679:	
	GCCTGCCCCG ACACGAAGAT GACCCTCGAC AGCCGCCGGG CGCTGATCAC	50
15	CAGGGAAGGC AAAGGCATAG GCCAGCACCG ATGAATTCCC TTTGACCTAA	100
	GTCTGCAGCA GGCCCCTTTT GCGCTTCCTT CCCCTCAGGC AGCCTCTCTC	150
	CCCCCGGGCC ACTCCCGGGG GCGAGGGGGT TACCCCTTTC CCAGTGCTTT	200
20	TTATTCCCGC GGGGCTCACC CCAAAGCATT AAAAGCAGCT TTGCAATTCC	250
	TTG	253
25	(2) INFORMATION FOR SEQ ID :680:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 294 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :680:	
	GCCAGCGCCG AGGCTTCTCC TAGGGCTGCT CCTGGGCCTA GCTCTTACAG	50
40	GCTCGTCCCC CAGGCCTGCC CTTCTCCACT GCCCCCTCCC GTGCCTGGGC	100

CCACACACCC TTCAGGAAGG GGGAGCACTG AGAAGCACAG CACAGGGGCT

346

٠	CAGCCTGGGA TCCGGTGACG GCCTAGGCAG AGGCTGGGCC AGGAGTCCCA	200
	AAGGTCAGTG ACAGTTTCTC AGAAGGGGCC CAGCGTCCAC CTCTCTCCCA	250
5	GGACCAGACA CCCCTTCCAG GCTCCCCCAC CCCCCTACGG GCTC	294
	(2) INFORMATION FOR SEQ ID :681:	
10	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 268 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :681:	
20	CCGCCAAGTG ACACCAAAGC CCTGGTTGAC TTTGACAGCC CCGTGGGCGC	50
	GCGGGAGGCC GGGCACTCTA GGGTCTACCT ACCAGTGCAA TCGTTTAGCG	100
	CTTTTTCAGT GGGGCAGGGC AGGAAGCAGG CGGGACCAGG CAGCCAGTTC	150
25	TCAAAGGCTG CGGGGCCAAC TAGAGGCCAC AGCCCCTCAC CCCTAGACAC	200
	TGCCAACCAG AACTGACACG CGACCTCCTG GGCGCTGACG CCATTAAAAC	250
30	CAACGTTGGC GCCCGGCG	268
30	(2) INFORMATION FOR SEQ ID :682:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 354 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :682:

•	GCCACCGCCG AGGAAAACCG TGCACTGTTA GCCATGATCA ACCCCACCGT	50
	GCTCTTCGAC ATTGACATCG ACGGCTGAGC CCTTGACCTA GTCTCCTTTG	100
5	AGCTGTTTGC AGACAAGGTC CCAAAGACAG CAGAAAATTT TCGTGCTCTA	150
	AGCACTGGAG AGAAAGGATT TGGTTATAAG GGTTCCTGCT TTCACAGAAT	200
10	TATTCCAGGG TTTATGCGCC AGGGTGGTGA CTTCACACGC CATAATGGCA	250
10	CTGGTGGCAA GTCCATCCAT GGGGAGAAAT TTGAAGACGA GAACTTCATC	300
	CTAAAGCATA CGGGCCCTGG CATCTTGCCC ATGGCAAATG CTGATCCTGA	350
15	TACA	354
	(2) INFORMATION FOR SEQ ID :683:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 148 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :683:	
30	CCTCTCCGTG AGGACAGGGC AGTCTTGGTG CGCAGCCCCT CTCCTCTCTG	50
30	TCCCCTGACA CTCCACAGTG CGCCTGCAAC CCAGGCGGCC TTATCCGCGC	100
	AGTGGCGGCA GTTCAGAAAT AAAGGGCCCA TTTGCGGGAT GCCGCATT	148
35	(2) INFORMATION FOR SEQ ID :684:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 307 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) MODOLOGY. linear	

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	(xi) SEQUENCE DESCRIPTION: SEQ ID :684:	
-	AGCACCGAGG CGCTCAAGGT CCTGGGGAAC CCCAAGAGCG ACGAGACGAA	50
5	CCCGAAGGCG CTGGACTTTG AGCACTTTCT GCCCATGCTG CAGACAGTGG	100
	CCAAGAACAA GGACCAGGGC ACCTATGAGG ATTATGCCGA AGGACTTCGG	150
10	GCGCTTGACA AGGAAGGAAA TGGCACCGTC ATGGGCGCTG AAACCCGGCA	200
	TGCTCTTGCC ACACTGGGCG AGAAGACGAC AGAGGAAGAA GCAGAGACGC	250
15	TGGCGGCAGG GCATGAGGAC AGCAATGGTT GCATCAACTA CGAAGCATTT	300
15	GTGAGGC	307
	(2) INFORMATION FOR SEQ ID :685:	
20	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 174 base pairs  (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(*i) SEQUENCE DESCRIPTION: SEQ ID :685:	
30	CCATCTCAAG GCGATCCATG GAAAGCTTCC TGGGGAACGT ATGCTAGCAG	50
	AGCTTCTCCC CGTGAATCAC ATGCCGGAGA TCCCACTCTT AGCTGGCAAA	100
	TGAATCCGAA TTGACACAGC AGCCCCATAA GCATCAGCCC TGTAGAGTGA	150
35	GGAGCCATCT CTAGCGGGCC CTTC	174
	(2) INFORMATION FOR SEQ ID :686:	
40	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 106 base pairs	

349
(C) STRANDEDNESS: double

(D) TOPOLOGY: lin ar

. 5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :686:	
	ACATGCCAAA GAAAGCGTGC ATATTAGCCT ATAGAACCAC AGTAATCACA	50
10	CTAGAGAAAT TCCACTGCTA CAATAAAATG TAATCGGAAG CATCTTTACT	100
	TATAAA	106
15	(2) INFORMATION FOR SEQ ID :687:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 97 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :687:	
	CAGATTTTT TCAATTCTCC ACCCGCCAAA AGGGGAAGGG CTTTTCCCCA	50
30	GAGAAAAGGA AAGGGGGAAAA AACCCAACCC AAAACCA	97
30	(2) INFORMATION FOR SEQ ID :688:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 172 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :688:	

350

	GCCTCTCTCT GGGCAAGTTC ATGGCTTCTG TGAGCCCTTT NACTGACCTC	. 20
	CAGACACTGT TAGGCTGGAG CCTCGGTAGC CGTTCCTCCT GCCCACTGGA	100
5	CCTTCCAACA GGCCCTCCTC CCCTCCTTGA ACCGGCCCTT CCTGGCCTTT	150
	GAATAGAGTC TAAGCGAACG AC	. 172
10	(2) INFORMATION FOR SEQ ID :689:	
••	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 200 base pairs	
	(B) TYPE; nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(2) 20102011 12110112	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :689:	
20		
	GCCACCGCCG AGCTCACCCC TGCGGTGCAC GCCTTCCTTG GACAAGTTTT	50
	TGGCTTCTGC GAGCCTTTTA CTGACCTCCA AACGCTGTTA AGCCGGAGCC	100
25	TOGGTAGOOG TTOOTOCTGO COACTGGAON TOCCAACGGG COCTOCTCCC	150
23	1000110000 1100100100 COACIGGACH 1000AACGGG CCC1001000	130
•	CTCCTTGAAC CAGCCCTTCC TGGCCTTTGA ATAAAGTTTA AGCGAGTAGC	200
	(2) INFORMATION FOR SEQ ID :690:	
30	•	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 81 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(wi) CROUPHOR DECORPRISE CRO TO -600.	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :690:	

GCCACCGCCG AGCAGCAGCT TACAGCCAGG GCAGCTTTGA ATGCGGCCCA

	ACACAAATTC ACAAGTGNTC TCAAAAAAACT C	81
	(2) INFORMATION FOR SEQ ID :691:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 217 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :691:	
15	TTCCTAACCG ATCGAATGAA GGATTCAAAA TTAACCACTC CAAGGGGGGA	50
	TTGAAGGAAG AACCACTCTT AACGGACAAA AAGAAAGAAA GGGGAGGGAG	100
20	TAACAGGGAT ATGAGCTCTA GCCGCCCAAG CTAGCAATGG CAACCCTTCT	150
	GGGTCCCCTT TCAGCATGCG GAAGCTTTTC TTCGACTTCA CTCCATAAAC	200
	AGCTGACGCT CAAAAAG	217
25	(2) INFORMATION FOR SEQ ID :692:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 72 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :692:	
	CGGCCTTCTG GAAACCCATG AAAAAAAAA GTTCCGCACC TCCAAGGGGA	50
40	GAAGAGTAAG AGACAGCTTT CA	72
-10	(2) INFORMATION FOR SEO ID :693:	

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(i) SEQUENCE CHARACTERISTICS:

	(A) LENGTH: 329 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :693:	
10	TCTGCTGCCG CCCGCAAGCA GAGGGACTCG GAGATCATGC AGGGGAAGCA	50
	TOTOCTOCCO CCCOCANGCA GAGGGACTCG GAGATCATGC AGGGGAAGCA	30
	GAAAAAGGCA AACAAGAAGA AGGAGGAACC CAAGCAGCTT TGCGGCTTCG	100
15		150
12	CGTCCAACCC TCTTGCCCTT CACCTACGCG CCTAGAGCCA GTCCCACCAC	150
	GCTCGCGTTT CCTCCTGTAG CGCTCACAGG CCCCAGCACC GATGGCATTC	200
20	CCTTTGACCT AAGCCTACAG CAGGCCCCTT TTGTGCTTCC TTCCCCTCAG	250
	GCAGCCTCTT TCCCCCTGGG CCACTCCCGG GGGTGAGGGG GTTGTCCTTC	300
	CCGATGCTTT TTGTTACCGT GGGGTTTGC	329
	COMISCILL HOLINCOL GOOGILISC	329
25	(2) INFORMATION FOR SEQ ID :694:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 296 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :694:	
	TCTGCTGCCG CCCGCAAGCA GAGGGACTCG GAGATCATGG CCTGCGCCGA	50
40	ACAAATGTAC GGAATGCGTG AGTCCCTCTG GGAGGCC ALA CACGGATCCG	100
40	GATCACCTGT TTGAAACCAT CTCCCAAGCC ATGCTGAATG CTGCGGACCA	150
		100

	GGATGCAGTG TCAGGCATGG GAGTCATTGC CCACATCATC GAGAAGGACA	200
	AAATCACCAC CAGGACACTG AAGGCCCGAA TGGACTAACC CTGTTCCCAG	250
5	AGCCCACTTT TTTTTTTTT TTGGAAATAA AATAGCCTAT CTTTCG	296
	(2) INFORMATION FOR SEQ ID :695:	
10	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 211 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :695:	
20	GCCAGCACCG ACCTAGCCTA AGCCGTCTAG AACCACCTAA GCCCCTAAGG	50
20	AAACCTGTGG TCACACTGGG CCCTCCTCAG GAACTCTCCC TGCGCAGAGG	100
	CGTGTCTTAG CACTAACCTC CTCCCTAGCC CCTTATTTGG TGGCAGAAGT	150
25	GCCTCCACC CCTTCACCGT TTAAAAATAC TCCGTGGAGA AAAGAAAGCT	200
	TNAAGGAGTA G	211
30	(2) INFORMATION FOR SEQ ID :696:	
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 92 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :696:	
40	GCCTGCACCG ACAATGCCCA GAACTCCAGA ACTTCACCTA TCACGTATCC	50

50

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	CCAACAACAC AGACGGCGAA AACAAAACAA ACTTAAACCT AG	92
	(2) INFORMATION FOR SEQ ID :697:	
5	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 314 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :697:	
15	GCCAGCACCG AGGCCTAGGG TAGAGCAGAC TGTGGCTTTA CCTCGGTGTC	50
	CTACCAGCAA GGGGTCCTAT CTACCACCAT CCTCTATGAG ATCCTGCTAG	100
20	GGAAGGCCAC CCTGCATGCT GCGTTGGTCA GCACCCTTGC GCTGATGGCC	150
20	ATAGTCAAGA GAAAGGATTT CTGAAGGCAG CCCTAGAAGC GGAGTTAGGA	200
	GCTTCTAACC CGTCATGGTT TAAATACACA CCCTTTTTTG GACAGCGCTT	250
25	CTGAAGAGCT GCTCTTACCT CTCTGCATCC CAATAGATAT CCCCCTATGC	300
	GCATGCGTAC CTGT	314
30	(2) INFORMATION FOR SEQ ID :698:	
	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 198 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li></ul>	
35	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID :698:	

GCCACCGCCG AGTTCACCCC TGCAGTGCAC GCCTCCCTGG ACAAGTTCCT

PCT/GB93/01467 WO 94/01548

355

	GGCTTCTGTG AGCACCGTGC TGACCTCCAA ACACCGTTAA GCTGGAGCCT	100
	CGGTAGCCGT TCCTCCTGCC CACTGGACTC CCAACAGGCC CTCCTCCCCT	150
5	CCTTGCACCG GCCCTTCCTG GTCTTTGAAT AAAGTCTAAG CGGGCAGC	198
	(2) INFORMATION FOR SEQ ID :699:	
10	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 230 base pairs	
10	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :699:	
	GCCAGCACCG ACAGCAACAA AAATGTTCCC ACAGAGATCA GGATGACTTG	50
20	CTGAAGCTCA GTGGAGGCTA AAAAGAGGAC ACAAAAGTGA ACAGAATGAC	100
	CTTCCTACGC ACAACACAAA CACCAGTTAA TGCTCCATCC ACGCTGCTTA	150
25	AAGAGCATTC CTGTCCTAGC AAAATGGGCA AGTCCCTCTA CCCCCCACCC	200
	TTAGCCGGCA TGCTTACATT AATAGCTAGA	230
30	(2) INFORMATION FOR SEQ ID :700:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 282 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :700:	
40	AGCAACAAAA ATGTTTCCAC GGAGATCAGG ATGACTTGCT GAAGCTCAGT	50

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	GGAGGCTCAA AAGAGGACAC AAAAGTGAAC AGAATGATCT TCCTACGCAC	100
	AACACAAACA TCAGTTAATG CTCCATCCAC GCTGCTTAAA GAGCATTCCT	150
5	GTCCTAGCAA AATGGGCAAG TCCCTCTACC CCCCACCCTC ACTTGGCATG	200
	CTTACATTAA TAGCTAAAGT CAATCCTGTA ATGAAATAAA GCAAATGGCA	250
10	GCTGTCTAGT AGCCTCCACT ACCGCAAATA TC	282
10	(2) INFORMATION FOR SEQ ID :701:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 255 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :701:	
	GCCTGCGCCG AACAAACGCA CGGAATGAGC GAGTCCCTCT GGGAGCCCAA	50
25	CATGGATCCG AATCACCTGT TTGAAACCAT CTCCCAAGCC ATGCTGAATG	100
	CTGCGGACCA GGATGCAGTG CCAGGCATGG GAGTCATTGC CCACATCACC	150
		200
30	GAGAAGGACA AAATCACCAC CAGGACACTG AAGGCCCGAA TGGACTAACC	200
30	CTGTTCCCAG AGCCCACTTT TCCCCTATTT TGGAAATAAA ATAGCCTGTC	250
	CIGITOCOA AGCCCACIII ICCCCIAIII ICCAAAIAAA AIAGCCIGIC	230
	TTTCG	255
	·	
35	(2) INFORMATION FOR SEQ ID :702:	
	(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 89 base pairs(B) TYPE: nucleic acid

(C) STRANDEDNESS: double(D) TOPOLOGY: linear

. 40

	(xi) SEQUENCE DESCRIPTION: SEQ ID :702:	
	GCCTGCGCCG AGCACAAGAC AATGATGAAC ATTCTAAAAA AAAAGAATGA	50
5	CGCACATTTT AATAAAGCAC AGCACAAACT GTTCTTTCC	. 89
	(2) INFORMATION FOR SEQ ID :703:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 96 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :703:	•
20	GCCAGCGCCG AGATCCTGGC GGCCTACCGC CCCCCGCCGC ACCCCCGCTA	50
	GCGCCCACC CCGCGTCTAT CGCCCAATAA AGGCATCTTT GTCGGG	96
	(2) INFORMATION FOR SEQ ID :704:	
25		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 123 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
,0	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :704:	
35	GCCTGCGCCG AACAAACATA CAGAACGCAA CGAGTCCCTC TGAAGGCCCA	50
	ACACGGATCC GAATCACCTG GCCCGAAACC ACCTACCTAG CCATGATGAA	100
10	TGCTGAGGAC CCAGATGCAG TAC	123
	(2) INFORMATION FOR SEQ ID :705:	

358

(i) SEQUENCE CHARACTERISTICS:

	(A) LENGTH: 262 base pairs	
	(B) TYPE: nucleic acid	
••	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	· · · · · · · · · · · · · · · · · · ·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :705:	
10	GCTTGATGCC TGCGCCGAAC AAACATACAG AATGCGGCGA GTCCCTCTGG	50
	GUITGHIGGE IGEOGRAPH AMACHINEN ANIVESCON GICCETEIGG	30
	ACGCCCAACA CGGATCCGGA TCACCTATCT GAAACCATCT CCCAAGCCAT	100
15	GCTGAATGCT GCGGACCAGG ATGCAGTGCC AGGCATGGGA GCCATTGCCC	150
•	ACATCACCGA GAAGGACAAA ATCACCACCA GGACACTGAA GGCCCGAATG	200
	ACATCACCGA GAAGGACAAA ATCACCACCA GGACACTGAA GGCCCGAATG	200
20	GACTAACCCT GTTCCCAGAG CCCACTTTTT TTCTTTTCA GAAATAAAAC	250
20	AGCCTGTCTT TC	262
	(2) INFORMATION FOR SEQ ID :706:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 209 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :706:	
25		5.0
35	GCCAGCACCG ACCTAGCCTA AGCCGTCTAA AACCACCTGA GCCCCTGAGG	50
	AAACCTGTGG TCACACTGGG CCCTCCTCAG GAACTCTCCC TGCGCAGAGG	100
	CGTGTCTTAG CACTGCCCCC CTCCCTAGCC CCTTATTTGG CGGCGGAAGC	150
40		
	GGCCTCCACC CCTTCCCTGT TTGCAAACAC TCTGCGGAGA AAAGAGGACT	200

	TCAGGGAGT	209
	(2) INFORMATION FOR SEQ ID :707:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 170 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :707:	
15	GCCAGCACCG AGATGACGAG CTTTCTGCTG CCACCCACAA GCAGAGGGAC	50
	TCGGAGATCA CGCAGCAGAA GCAGAAAAAG GCAAACAAGA AGAAGGAGGA	100
20	ACCCAAGCAG CTTTGCGGCT TCACGCCCAA CCCTCTCGCC CTTCACCTGT	150
20	GAGCCTGGAG UCAGTCCCAC	170
	(2) INFORMATION FOR SEQ ID :708:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 160 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :708:	
35	GCCACCGTCG AGGATTCAGC AGCCTCCCCC TTGAGCCCCC TCACTTCCCG	50
	ACGTTCCGTT TCCCCCTGCC CGCCTTTTTC CGCCACCACC GCCGCCGCCT	100
40	TCTGCAGGCC GTTTCCACCG AGGAAAAGGA ATCGTATTGT ATACCCGCTA	150
,,	CCCAGAACCT	160

	(2) INFORMATION FOR SEQ ID :709:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 51 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :709:	
	GCCAGCACCG AGCAACCTGG GTCCAAATAA AAACTAAACT	50
15	G	51
	(2) INFORMATION FOR SEQ ID :710:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 64 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :710:	
	GCCTGCGCCG ACCACCCCTT CCTTTTCTTC ATCCAGCACA GCAAGACCAA	50
30		64
	CAGGATTCTC TTCT	64
	(2) INFORMATION FOR SEQ ID :711:	
35	(2) 11101111111011 1011 102	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 104 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :711:	,
	CCAGCCAAAG ATTCCCAGGC TTTCTTGTCT CAGCAACTTT CCCATCTTCT	50
5	CTCTCTTGGA TGATGTTTGC CGTCAGCATT CACCAAATAA ACTTGCTCTC	100
	TGGG	. 104
	(2) INFORMATION FOR SEQ ID :712:	
10		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 68 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(5) 20102001 2211002	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :712:	
20	CTAGAAATAG ACCCACAATT TAGAGACAAT CTATACTAGA TTTATCTCCT	50
	TTGTTTTTAG TTGAAGGC	68
25	(2) INFORMATION FOR SEQ ID :713:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 127 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear .	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :713:	
	AGCGAATGTA AGGGGGCCTT GGACGACCCG ACGCCGGACT ACATGAACCT	50
40	GCTGGGCATG ATCTTCAGCA TGTGCGGCCT CATGCTTAAG CTGAAGTGGT	100
	GTGCTTGGGT CGCTGTCTAC TGCTCCT	127

	(2) INFORMATION FOR SEQ ID :714:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 90 base pairs	
. 5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :714:	
	CTTGGGAGAT AACAGTTTCC CCTCTCCCTC CCCCTGCAGA TTTCCAGCGC	50
15	CCGGACCAAG GCCAAGTAAG CCTCTACAAA CCTAGCATTT	90
	(2) INFORMATION FOR SEQ ID :715:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 69 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :715:	
30	CCAGCGCCGA GGTTGTATAT TTGTAGGTGC AGGCACACGA CCAGGACACA	50
	ACAAAAATCT GAAAACATC	. 69
	(2) INFORMATION FOR SEQ ID :716:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 102 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :716:	
	GCCGAGGAGA ACCCCCGCTC CCTGAGGAGG ACCTGTCCAA ACTCTTCAAA	50
5	CCACCACAGC CGCCTGCCAG GATGGACTCG CTGCTCATTG CAGGCCAGAT	100
	AA	102
	(2) INFORMATION FOR SEQ ID :717:	
10	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 124 base pairs	
	(B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :717:	
20	AGCGAATGTA ACCCGGCCTT GGACGACCCG ACGCCGGACT ACATGAACCT	50
	GCTGGGCATG ATCTTCAGCA TGTGCGGCCT CATGCTTAAG CTGAAGTGGT	100
25	GTGCTTGGGA TACGCTGTCT ACAG	124
	(2) INFORMATION FOR SEQ ID :718:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 123 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :718:	
40	GGAAAACCGT GTACTATTAG CCATGGTCAA CCCCACCGTG TTCTTCGACA	50
	##CCCC#C63	100

	ACAAGGTCCC AAAGACAGCA GAA	123
	(2) INFORMATION FOR SEQ ID :719:	
5	(i) SEQUENCE CHARACTERISTICS:	
•	(A) LENGTH: 54 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10 .	. ,	
	••	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :719:	
15	ACCACCCCTT CCTTTCTTC ATCCAGCACA GCAAGACCAA CGGGATTCTC	50
	TTCT	54
	(2) INFORMATION FOR SEQ ID :720:	
20	(2) INFORMATION TON BEG IDZu.	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 117 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :720:	
30	GACCACAGGG CCTTCAATCC TTTTTTGTTT TCAACAGTCT TGCTGAATTA	50
	AGCAGAAAGG GCCTTGAATC CTGGCCTGGA ATTTGGGCAG ATATAGCATT	100
35	AATAAAACTG TGCACTC	117
	(2) INFORMATION FOR SEQ ID :721:	
	(i) SEQUENCE CHARACTERISTICS:	•
40	(A) LENGTH: 55 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: doubl	

365

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :721:	
	GACCACCCT TCCTTTCTT CATCCAGCAC AGCAAGACCA ACGGGATTCT	50
	CTTCT	55
10	(2) INFORMATION FOR SEQ ID :722:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 92 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :722:	
	GACTICACGA ACTACACAGG TCTTACCATT GACCTAAGAT CAATCTGAAC	50
25	ATTCTTAGCC CAGTCAGGGA GCTCTGCTTC CTAGAAAGGC AT	92
	(2) INFORMATION FOR SEQ ID :723:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 55 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :723:	
	TATTTCTAGG TGCAGGTATA TGATTGCCAT ATAATAAAAA TCTGAAAACA	50
40	•	
	TCCC	5 5

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·	(2) INFORMATION FOR SEQ ID :724:	
5	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 164 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :724:	
	GTGTACTATT AGCCATGGTC AACCCCACCG TGTTCTTCGA CATTGCCGTC	50
15	GACGGGCGAG CCCTTGGCGC GCGTCCTTTG AGCTGTTTGC AGACAAGGTC	100
	CCAAAGACAG CAGAAAAATT TTTCGTGCTC TGAGCACTGG AGAGAAAGGA	150
20	TTTGGTTATA AGGG	164
20	(2) INFORMATION FOR SEQ ID :725:	
25	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 110 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
30 ′	(xi) SEQUENCE DESCRIPTION: SEQ ID :725:	
	GTGAGAAGCT GCAGCGGTGA CCTGGAGGCT GCGATGTGGA GGTGGAGGAC	50
35	ACACCCTCAA CCGTTGCTCC TGTAGCTTCC GAGTCCTGGT GGTGTCGGCC	100
	AAGTTCAGTA	110
40	(2) INFORMATION FOR SEQ ID :725	
2 <del>-</del>	(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 163 base pairs

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID :726:	
	CCGTGTACTA TTAGCCATGG TCAACCCCAC CGTGTTCTTC GACATTGCCG	50
10		
	TCGACGGGAG CCCTTGGCGC GCGTCTCCTT TGAGCTGTTT GCAGACAAGG	100
		150
	TCCCAAAGAC AGCAGAAAAT TTTCGTGCTC TGAGCACTGG AGAGAAAGGA	150
		163
15	TTTGGTTATA AGG	103
	(2) INFORMATION FOR SEQ ID :727:	
	(2) INFORMATION FOR SEQ 15	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 105 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :727:	
	GAGGGCGAGT TCGAGGAGGA GGCTGAGGAG GAGGTGGCCT AGAGCCTTCA	50
30		100
	GTCACTGGGG AAAGCAGGGA AGCAGTGTGA ACTCTTTATT CACTCCCAGC	100
	CTGTT	105
	CIGIT	103
35	(2) INFORMATION FOR SEQ ID :728:	
	(2)	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 186 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

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	(xi) SEQUENCE DESCRIPTION: SEQ ID :728:	
	GCCAGCGCCG AAAAGCCAAG ACTTCATGAA CTACACAGGT CTTACCATTG	50
5	ACCTANGATO AATOTAAACT ATOTTAGCOO AGTCAGGGAG CTCTATTCCT	100
	AGGAAGGCAT CTTTCGCCAG TGGATTCGCC TCAAGGTCGA GGCCGCCACT	150
10	GGAAGACGAA AAATAGAACT CCCTTAGAGT AGACAA	186
	(2) INFORMATION FOR SEQ ID :729:	
	(i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 167 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :729:	
25	GCCAGCGCCG AGGTTGCATA TTCTAGGCGC AGGTATATGA TTGCCATATA	50
25	ATAAAAACCT GAAAACATCC CACCCGGGAA AAAAAAAAAA	100
	AAAAACACCC CCCCCACA AAAAACTCAA ATTCCCCTCC CAAAAAACCC	150
30	CCTCAAAATC AAAAAAC	167
	(2) INFORMATION FOR SEQ ID :730:	
	(i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 64 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :730:

•	GCCTGCGCCG ACCACCCCTT CCTTTTCTTC ATCCAGCACA GCAAGACCAA	50
	CAGGATTCTC TTCT	64
5	(2) INFORMATION FOR SEQ ID :731:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 96 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :731:	
	GCCAGCGCCG AGACCCTGGC GGCCTACCGG CCCCCGGTGC ACCCCCGCTA	50
20	GCGCCCCACC CCGCGTCTAT CGCCCAATAA AGGCATCTTT GCCGGG	96
20	(2) INFORMATION FOR SEQ ID :732:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 84 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :732:	
	GCCTGCGCCG ACCACCCCTT CCTTTTCTTC ATCCAGCACA GCAAGACCAA	50
35	CAGGATTCTC TTCTGCAGCC GCCACCGCGT CGGA	84
	(2) INFORMATION FOR SEQ ID :733:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 96 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

(D)	TOPO	LOGY:	line	ear
-----	------	-------	------	-----

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :733:	
	GCCAGCGCG AGATCCTGGC GGCCTACCGG CCCTCAGTGC ACCCCCGCTA	. 50
	GCGCCCACC CCGCGTCTAT CGCCCAATAA AGGCATCTTT GCCGGG	96
10	(2) INFORMATION FOR SEQ ID :734:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 96 base pairs	
15	(B) TYPE: nucleic acid	
	' (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: 3EQ ID :734:	
	GCCAGCGCCG AGATCCTGGC GGCCTACCAG CCCTCCGTGC ACCCCCGCTA	50
25	GCGCCCCACC CCGCGTCTAT CGCCCAATAA AGGCATCTTT GCCGGG	96
	(2) INFORMATION FOR SEQ ID :735:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 97 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		ē
	(xi) SEQUENCE DESCRIPTION: SEQ ID :735:	
40	GCCAGCGCCG AGATCCTGGC GGCCTACCAG CTCCTCAGTG CACCCCCACT	50
40	AGCACCCAC CCCGCATCTA TCGCCCAATA AAGGCATCTT TGCCGGG	97

	(2) INFORMATION FOR SEQ ID :736:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 127 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :736:	
	GCCAGCGCCG ACCACAGGGC CTTGAATCCT TTTTTGTTTT CAACAGTCTT	50
15	GCTGAATTAA GCAGAAAGGG CCTTGAATCC TGGCCTAGAA TTTGGGCAGA	100
	TACAGCATTA ACAAAACCGC GCATCTC	127
	(2) INFORMATION FOR SEQ ID :737:	•
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 64 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	·	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :737:	
	GCCTGCGCCG ACCACCCCTT CCTTTCTTC ATCCAGCACA GCAAGACCAA	50
	CAGGATTCTC TTCT	64
35	(2) INFORMATION FOR SEQ ID :738:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 88 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :738:	
	GCCAGCGCCG ACAATGCCCA GAATCCAGAA CTTTGCCTAT CACTCTCCCC	50
. 2	AACAACCTAG ACGCGAAAAC AGAATAAACT TCACCCAG	88
	(2) INFORMATION FOR SEQ ID :739:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 95 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :739:	
20	GCCAGCGCCG AGATCCTGGC GGCCTACCGC CCCCCGTGCA CCCCCGCTAG	50
	CGCCCCACCC CGCGTCTACC GCCCAATAAA GGCATCTTTG CCGGG	95
25	(2) INFORMATION FOR SEQ ID :740:	
23	(i) SEQUENCE CHARACTERISTICS:	
	(1) begoened communications (1	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
30	(5) 10102001. 12012	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :740:	
35		
	GCCACCCGA AGACGTATCA AGGCCCTCGA ACAACCCCGA GAGCTGATGA	50
	GATGAATGAG AAGATGCCGA ACTTTGCGCA CTCCATGCCC CTGCTGCAGA	100
40	CAGTAACCAA GAGCAAGGAC CAGGGCACCC ATGAGGATTA TGTCGAAGGA	150
	CTTCGGGTGT TTGACAAGGA AGGAAATGGC ACCGTCATGG GTGCTGAAAT	200

	CCGGCATGTT CTTGTCACAC TGGGTGAGAA GATGACAGAG GAAGA	245
	(2) INFORMATION FOR SEQ ID :741:	
· <b>5</b>	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 88 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :741:	
15	GCCTGCGCCG ACGATGCCCA GAATCCAGAA CTTCGTCTAT CACTCTCCCC	50
	AACAACCTAG ATGTGAAAAC AGAATAAACT TCACCCAG	88
20	(2) INFORMATION FOR SEQ ID :742:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 242 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	·	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :742:	
30	GCCGGAGCCA AAGCAAGCCA GAAGACTAAC AGTACTAACT ACAAATATTC	50
	GCACCTCGAT CGCAGTACCC AGGTTCTCAC GTAGCTGAAG NAATGTATTA	100
35	CTCTGATAGT CTTCATTCGG ATAGACTAAA GCGTGTGCTG ACTGGAGATG	150
	AGGTAAAGAA GATATGTATG CAACGTCCAG TCAAAACGGA TGGCAAGGTT	200
40	CGAGTCATGT CATATACCTT GCTGGATTAA TGGATGTCAT TA	242
,-	(2) INFORMATION FOR SEQ ID :743:	

	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 64 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
_		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :743:	
10		<b>.</b> .
	GCCTGCGCCG ACCACCCCTT CCTTTTCTTG ATCTAGCACA GCAAGACCAA	50
	CGGGATTCTC TTCT	64
15	(2) INFORMATION FOR SEQ ID :744:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 69 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
	CONTRACT PROPERTIES. CEO. TD - 244	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :744:	
	GCCAGCGCCG AGGTTGTATA TTTCTAGGTG CAGGTATATG ATTGCCATAT	50
	GCCAGCGCCG AGGIIGIAIA IIICIAGGIG CAGGIAIAIG IIIICGCIIII	
	AATAAAATT TGAAAACAT	69
30		
50	(2) INFORMATION FOR SEQ ID :745:	
	(5, 25, 25, 25, 25, 25, 25, 25, 25, 25, 2	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 74 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(I:) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID :745:

	GCCAGCTCCG AGGTTGTATA TTTCCAGGTG CAGATATATG ATTGCCATAT	50
	AATAAAAATC TGAAAACATC CCAC	74
5	(2) INFORMATION FOR SEQ ID :746:	
	(i) SEQUENCE CHARACTERISTICS:	•
	(A) LENGTH: 88 base pairs	•
	(B) TYPE: nucleic acid	
10	. (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :746:	
	1007	
	GCCTGCGCCG ACGATGCCCA GAATCCAGAA CTTTGTCTAT CACTCTCCCC	50
	AACAACCTAG ATGTGAAAAC AGGATAAACT TCACCCAG	88
20	(2) INFORMATION FOR SEQ ID :747:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 88 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	······································	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :747:	
	GCCTGCGCCG ACGATGCCCA GAATCCAGAA CTTTGTCTAT CACTCTCCCC	50
35	AACAACCTAG ATGTGAAAAC AGAATAAACT TCACCCAG	88
	(2) INFORMATION FOR SEQ ID :748:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 178 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

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## (D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :748:	
	GCCAGCACCG ATGAATTCCC TTTGACCCAA GTCTGCAGCA GGTCCCTTTT	50
10	GCGCTTCCTT CCCCTCAGGC AGCCTCTTTC CCCCTGGGCC ACTCCCGGGG	100
10	GCGAGGGGC TACCCCTTTC CCAGGCTTTT TATTCCCGTG GGGCTCACCC	150
	CAAAGCATTA AAAGCAGCTT TGCAATTC	178
15	(2) INFORMATION FOR SEQ ID :749:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 235 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :749:	
	GCCAGCACCG AAAAGCCAAG ACTTCATGAA CTACACAGGT CTTACCATTG	50
20	ACCTAAGATC AATCTGAACT ATCTTAGCCC AGTCAGGGAG CTCTATTCCT	100
30	AGAAAGGCAT CTTTCGCCAG TGGATTCGCC CCAAGGTTGA GGCCGCCATT	150
	GGAAGACGAA AAATTGCACT CCCTTGGCGC AGACAAACAC CAGTTCCCAT	200
35	TGGCGCTGCT GCCTATAACA AACACTTTTT TTTTT	235
	(2) INFORMATION FOR SEQ ID :750:	
	(;) SPONENCE CHARACTERISTICS:	

(A) LENGTH: 87 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

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(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :750:	
	GCCTACGCCG AAAACCCCTT CCTTTTTTC ATCCAGAAAA GCAAGAGAAA	50
	AAGGATTCTC TTCTGCGGCC GCCAACGCGT CGGAGAT	87
10	(2) INFORMATION FOR SEQ ID :751:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 170 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :751:	
	(XI) SEQUENCE DESCRIPTION: SEQ ID :/SI:	
	GCCTCCGCCG ATTCGTGACC AAGAAGGCTC TATGCATTCA GGCTTTCCAG	50
25	GAGACTCAAA AGCTGAAGAA GCAAAGAAGA GCCTTAAAGG CTGCAGCAGC	100
	AGTCCNAAAA ACAAGCAGAG CAGAGGAACC CAGACAGCCC TGCCAAAGCC	150
	ATGCCAAAGA CACTCAAAGA	170
30	112-0-0-112-0	
	(2) INFORMATION FOR SEQ ID :752:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 72 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

(xi) SEQUENCE DESCRIPTION: SEQ ID :752:

	•	•
	GCCAGCACCG AGGTTGCATA TTTCTAGGCG CAGGCATATG ATTGCCATAT	50
	AATAAAAAA TGAAAACACC CC	72
5	(2) INFORMATION FOR SEQ ID :753:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 122 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :753:	
	GCCAGCGCCG AGGACACCAA GAAGGTTTTG GACAGCGTGG GCATCGAGGC	50
20	GGACAACAAC CAGCTCAACA AGGCCATTAG TGAGCTGAAT GAAAAAAACA	100
	TTGAAGACGT TATTGNCCAG GA	122
	(2) INFORMATION FOR SEQ ID :754:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH 243 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :754:	
35	GCCACCGCCG ACTGAAACTG CACCGACCCC CCCTCGAGGA CCTGCTCTTA	50
	GGTTCAGAAG CAAACCTCAC GTGCACACTG ACCGACCTAA GAGACGCCTC	100
40	AGGCGCCACC TTCACCTGGA CACCCTCAAG CGGGAAGAGC ACTGTTCAAG	150
	GACCACCTAA GCATGACCTC TACGGCTGCT ACAGCGTGTC CAGTGCCCTC	200

	CCGGGCTGCG CCGAGCCATG GAACCATGGG AAGACCTTCA CTT	243
•	(2) INFORMATION FOR SEQ ID :755:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 71 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :755:	
15	GCCAGCGCCG AGGTTGCATA TTTCTAGGCG CAGGCATATG ATTGCCATAT	50
	AACAAAAACC TGAAAGCATC A	71
	(2) INFORMATION FOR SEQ ID :756:	
20		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 243 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :756:	
30	(12) 55255165 55561111011 552 15 17561	
	GCCACCGCCG AGTGACGCCA AAGCCCTTGG TTGACTCTAA CAGCCCCGTG	50
	GGCGCGCGG AGGCCGGGCG CTCTAGGGTC TACCTATCAG CGCAATCGTT	100
35	TAGTGCTTTT TCAGTGGGGC GGGGCGGGAA GCAGGCGGGA CCAGGCAGCC	150
	AGTTCTCAAA GGCTGCGGGG CCGACTAGAG GCCACAGCCC CTCACCCCTA	200
40	GACGTCGCCA ACCAGAACTG ACGCGCGACC TCCTGGGCGC TGA	243
70	(2) INFORMATION FOR SEQ ID :757:	

	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 64 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :757:	
10		50
	GCCTGCGCCG ACCACCCCTT CCTTTTTTT ATCCAGCACA GCAAGACCAA	50
	CAGGATTCTC TTCC	64
J		
15	(2) INFORMATION FOR SEQ ID :758:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 243 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :758:	
25	(XI) SEQUENCE PESCRIPTION. DIG ID	
	GCCÁGCACCA AGTGACGCCA AAGCCCCTAG TTGACTCTAA CAGCCCCGTG	50
	GGCGCGCGG AGGCCGAGCG CTCTAGGGTC TACCTATCAG CGCAATCGTT	100
30		
	TAGCGCTTTT TCAATGGGGC AGGGCAGGAA GCAGGCGGGA CCAGGCAGCC	150
	AGTTCTCAAA GGCTGCGGGG CCGACTAGAG GCCACAGCCC CTCACCCCTA	200
	01 00 00 00 00 00 00 00 00 00 00 00 00 0	243
35	GACGTCGACA ACCAGAACTG ACGTGCGACC TCCCGGGCGC CGA	243
	(2) INFORMATION FOR SEQ ID :759:	
	(4) 2	•
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 245 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

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(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :759:	
	GCCACACCAG ACTITCGACC CCCCAACCCT CTGAGGAAGA TGGGGGCAAG	50
10	AAGATCACGC TCCCCGCCTG TTCCCCCGCC GCTTTTCTCC TCTCTTCTCT	100
10	CTTCGCTCTC AGCTCCCCTC GTCCCCTCAG CTCCAGACGT AGGGGAGGGG	150
	TTGCCACAGA CTCCCTGCTT GAAGCCTGCC CTTGCCTAAG ATGCTGGTAA	200
15	TGGCCATGGT ACCCCCTTCC GGGCATCTAC TCTGGTTTTC GGCCA	245
	(2) INFORMATION FOR SEQ ID :760:	
20	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 68 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :760:	
30	GCCAGCGCCG AGGTCGCATA TTTCTAGGCG CAGGTATATG ACTGCCATAT	50
	AACAAAAACC, NTGAAAAC	68
	(2) INFORMATION FOR SEQ ID :761:	
35	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 71 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	
4.0		

	(xi) SEQUENCE DESCRIPTION: SEQ ID :761:	
	GCCAGCGCCG AGGTCGCATA TTTCTAGGCG CAGGTATATG ATTGCCATAT	50
5	AATAAAAACT GAAAACACCC C	71
	(2) INFORMATION FOR SEQ ID :762:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 88 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :762:	
20	GCCTGCGCCG ACGATGACCA GAATCCAGAA CTTTGCCTAT CACTCTCCCC	50
	AACAACCTAG ACGCGAAAAC AGAATAAACT TCACCCAG	88
	(2) INFORMATION FOR SEQ ID :763:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 223 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :763:	
35	GCCTGCGCCG ACAAACAAAA CCTGGAGGCC ATTCTGCACA GCCTGCCCGA	50
	GAACTGTGCC AGCTGGCGGT GAGGGCTGCC CAGATCCCCG GCACACACTC	100
40	CCCCACCTGC TGTTTACATG ACCCAGGGGG CGCACACTAC CCCACAGGCG	150
- <del>-</del>	CGCCCATACA GACATTCCCC GCACCCCCCT CCTCCCAACM GGAGGGGGG	222

	CGGATAGTCA CACTCCCTGC CGA	223
	(2) INFORMATION FOR SEQ ID :764:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 70 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :764:	
15	GCCAGCGCCG AGGTTGCATA TTTCTAGGCG CAGGTATATG ATTGCCATAT	50
	AATAAAAATC TGAAAACACC	70
20	(2) INFORMATION FOR SEQ ID :765:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 118 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	.(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :765:	•
50	GCCAGCGCCG ACCGCCCCAA AAATACTCCC ACCGGGATCA GGGCGATTAA	50
	TGAAGACTCA ACGGGGACTA AAAAGGGGCC CCAAAAAAAA CCAAACCACC	100
35	TTTCTACGTA CCGTATAG	118
	(2) INFORMATION FOR SEQ ID :766:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 88 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

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(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :766:	
	GCCAGCGCCG ACGATGCCCA GAATCCAGGA CTTTGCCTAT CACTCTCCCC	. 50
	ARCAACCTAG ACGCGAAAAC AGAATAAACT TCACCCAG	88
10	(2) INFORMATION FOR SEQ ID :767:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 91 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	,
	(D) TOPOLOGY: linear	
20	•	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :767:	
	GCCACCGCCG ACTCCAGGCA CTCACTCAAA CTTGATCTTC AACTCTGCAT	50
25	ACAAGCAGAA GCAATAAACC AATCTGATTT TCTTTTCAAT T	91
	(2) INFORMATION FOR SEQ ID :768:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 223 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :768:	
	GCCTGCGCCG AACAAATATA CAGAATGCGC GAGTCCCTCT GGAAGCCCAA	50
40		100

	CTGCGGACCA GGATGCAGTG CCAGGCATGG GAGTCATTGC CCACATCACC	150
	GAGAAGGACA AAATCACCAC CAGGACACTG AAGGCCCGAA TGGACTCGCC	200
5	CTGCTCCCAG AGCCCACTTT TTT	223
	(2) INFORMATION FOR SEQ ID :769:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 37 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :769:	
	GCCAGCGCCG AAAACACACA CTTTGCTTCT TACCTGC	37
20	(2) INFORMATION FOR SEQ ID :770:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 37 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :770:	
	(XI) SECOUNCE SESCULITION. SEC IS 1770.	
	GCCAGCGCCG AAAACACACA CTCTGCTTCT TACCTGC	37
35	(2) INFORMATION FOR SEQ ID :771:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 91 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

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	(xi) SEQUENCE DESCRIPTION: SEQ ID :771:	
,_	GCCACCGCCG ACTCCAGGCA CTCACTCAAA CTCGATCTTC AACTCTGCAT	50
. <b>5</b>	ACAAGCAGAA GCAATAAACC AATCTGATTT TCTTTTCAAT T	91
	(2) INFORMATION FOR SEQ ID :772:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 177 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :772:	
20	CCCCCCCCC ANCCAMENCOC MEMORICOCCA COMO CONTRA CONTR	
20	GCCTGCGCCG ANGCATTCCC TTTGACCTGA GTCTGCAGCA GGTCCCTTTT	50
	GCGCTTCCTT CCCCTCAGGT AGCCTCTCTC CCCCTGGGCC ACTCCCGGGG	100
	describer described nationals coccidence hereeges	100
	GTGAGGGGGT TACCCCTTCC CAGTGTTTTT TATTTCCGTG GGGCTCACCC	150
25		130
	CAAAGTATTA AAAGCAACTT TGCAATT	177
	·	
	(2) INFORMATION FOR SEQ ID :773:	
30		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 151 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :773:	
40		

AACATAAGAG GAGAAAGGAA GGGACATGAG GCATACCATT CCCCCCCCA

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	GAATTAGÁGG TAAAGGAATC CTAAAATAAA GAGCACAGCA GCAATCACAC	100
	TCACAGGGTC CAGAGGCGTA TTCCTGGCCA TCTTCCTAGT ACTCGGTCCG	150
5	T	151
	(2) INFORMATION FOR SEQ ID :774:	
•	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 299 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :774:	
	ATCTTAATGA ACATGGCATT TAAAATCCTG TAATTTCAAA CAGTGAACCA	50
20		
	CAATGCCGTA TGATCTAAAG GCTGUTGAAC CACAGCGTGG ATACACTTAA	100
	CTGAGCTCCT CGCTGGGTCA AAGCACTCAT CTCCGAGTCT AAAGCTACAC	150
25	ACTATGGAGC ACACAACTCT GCCTCGCGCT GACACCAGAC AAACACGGCG	200
23	ACTATOGRACE ACACAMETET GEOTEGEGET GACACCAGAC AAACACGGGG	200
	GGAGCTGAGG CGGACAGCTA CAGGACCACG AGCATAGACC ACGGCACCTG	250
	discretified decisional finances industrialists industrialists	230
	AGACCATCTC TACGCAAGGA CTTAAGGAAG CAAATATAAT ATTAAAATA	299
30		
	(2) INFORMATION FOR SEQ ID :775:	
	(i) SEQUENCE CHARACTERISTICS:	
•	(A) LENGTH: 185 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	·	

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(xi) SEQUENCE DESCRIPTION: SEQ ID :775:

TGAAGGAAAT GACTACCTTG CACTACATGA AAAGGATATC GTTGCCA	ATTG 50
TGGCGTAATT TTCGTGCCGA GTGAATGTGG CGCAAACAAC TATATAT	CCNA 100
5 AACCGTATAT TTAAAATGAA TTACTAGAGA GGGAATGTAA TCATGGC	CAAA 150
AGAAATTAAG TTTTAAGAAG ATGCTAGTGC TAAGC	185
(2) INFORMATION FOR SEQ ID :776:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 255 base pairs	
(B) TYPE: nucleic acid	•
(C) STRANDEDNESS: double	
15 (D) TOPOLOGY: linear	
15 (b) 151525511 123522	
(xi) SEQUENCE DESCRIPTION: SEQ ID :776:	
20	
ATCCAAGCCC ATACCCATCA ACAATGGGAC AGCGATTGGA TCACCAC	GCCA 50
•	
TTTCACCACA CATGGCAACA AACTTACCTT CTTTAAGAGC GGCAGT	AATC 100
25 ACATCGTCGA TCAAACGCAA AATCGATGGG TTATAAGGTC GATACAI	AATA 150
TO A THE STATE OF	AAAT 200
AGCAACCTTA TCATTACCAC GATCTGCAGC CATCGTATAA CCAATC	. 200
CGTCGGTACC AATCGAGAAG AAGTCCAATC CCTTAGCAAA CTCATC	AGCC 250
30	
AACAT	255
nnoni	
(2) INFORMATION FOR SEQ ID :777:	
35 (i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 239 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :777:	
	AGATTCTGCA GTGTAATATG ACCAAATCAA ATCCGTTGTA TGATCGAATA	50
5	AGGCCGTCAT AAAGTAAGTT GAAAATTTCG TTCTTGGCTG AATCGTGTTA	100
	AACCGTTGTA CACAACGTAG TAAAATTCAT AACCCATCTG CATACCAATC	: 150
10	GTCAGCCGTG ATGCATTTAC TCACTTTACG TCGATGAATG TCAAACATCG	200
10	CACCTTTTCA ATGTTTACTA AAAACATAGC ACGCAATAT	239
	(2) INFORMATION FOR SEQ ID :778:	
15	<ul> <li>(i) SEQUENCE CHARACTERISTICS:         <ul> <li>(A) LENGTH: 252 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul> </li> </ul>	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :778:	
25	ACTGAACAAC GTAAGGTCTT GACTGACACT TACAAGTTGG ATGAATCTGA	50
	AATAAAGTTG GTATTGTTTG AAGCAGCCCA ACAATTTCGA ACATGCTACA	100
30	AGACCGTCGT TTGACTGACA AGGCCTTGAA GTACATGACT GACAACAACG	150
	TCGATCTTCG CCTAGGCGCC ATGGTCACTG GTGTTGACGA AAATGGCGTG	200
	ATTTTTAAGG ATGACTCAAC TTCGCCAACT CGGTTCCTCA TTAGGACAAC	250
35	TA	252
	(2) INFORMATION FOR SEQ ID :779:	
40	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 265 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li></ul>	

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## (D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :779:	
	TCGGATTTAT ACGGCTGTTA GTGCTATCGG CGTCTGGTAT GTGTTATATA	50
10	TCGCCTATCG TTTTTTGGCC AATGGGCGTT GGCTACGCGG GGCAATGATT	100
10	GCCATCGTTT TTGTTATCTT GACTTATTTC GTCATTTTAA ATATTATTTA	150
	ACTATTTTAC AAATAAAGTG GTCAAATGGG ATATTTTGCC AAAAATAGAG	200
15	AAAGTGTTAG GCGGCCCACA GCTGGAGGAA GAGAAAGCGG CTGTGCATGA	250
	AGTTATTGCA CCCGC	265
20	(2) INFORMATION FOR SEQ ID :780:	
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 249 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	•	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :780:	
	CTCAGCTGGA CCAAATTAGT TGAATTACTC ACCATCAATA AACTATAAAT	50
	GGCGCCAATG ACCAACCCGC CAACGATTCC CGTTGTCAAA GAACCTAATA	100
35	ACAAGTAACC AACCGCAGCC CCAACAAGCC CAACTAGGTT TAAAAAAACC	150
	AAGCAAAAGG CCAACTGTCC GTCGTTTATT GGATTGTATC TGCTCATATA	200
40	ACATTAAAAC TTAACCGTTG GCACTTCTTT CTCAGACCCG CCGATACTG	249

(2) INFORMATION FOR SEQ ID :781:

(A) LENGTH: 188 base pairs .

(i) SEQUENCE CHARACTERISTICS:

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
·	
(xi) SEQUENCE DESCRIPTION: SEQ ID :781:	
GAGAGAACCC ACCATAGTAC TGTCTCCTGC AGACAAGACC AACGGCAAGG	50
CCGCCTGGGG TAAGGTCGGC GCGCACCTGG CGAGTATGGT GCGGAGGCCC	100
TGGAGAGGAT GTTCCTGTCC TTCCCCACCA CCANNNACTA CTTCCCGCAC	150
THE PARTY OF THE P	188
TTCGACCTGA GCCACGGCTC TGCCCAGGTT AAGGGCCA	100
(2) INFORMATION FOR SEC ID •782•	
(2) INFORMATION TON BEG ID . 702.	
(i) SEQUENCE CHARACTERISTICS:	
• • -	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID :782:	
AATATTTATT TCATTTGTTT ACTACCACTT CATTTTATTT GTTTGCTGCT	50
	100
GCCGTTTAT TIATTITIAC TGAAAGTGAG AGGGAACTTT TGTGGCCTCC	100
AACCTTTTC TGTAGGCCGC CTTAAGCTTT CTAAATTTGG AACATCTAAC	150
micolitical territorial territ	
AAGCTGAAGN GGAAAAGGGG GTTTCGCAAA AT	182
(2) INFORMATION FOR SEQ ID :783:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 295 base pairs	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :781:  GAGAGAACCC ACCATAGTAC TGTCTCCTGC AGACAAGACC AACGGCAAGG CCGCCTGGGG TAAGGTCGGC GCGCACCTGG CGAGTATGGT GCGGAGGCCC TGGAGAGGAT GTTCCTGTCC TTCCCCACCA CCANNNACTA CTTCCCGCAC TTCGACCTGA GCCACGGCTC TGCCCAGGTT AAGGGCCA  (2) INFORMATION FOR SEQ ID :782:  (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 182 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID :782:  AATATTTATT TCATTTGTTT ACTACCACTT CATTTTATTT GTTTGCTGCT GCCGTTTTAT TTATTTTTAC TGAAAGTGAG AGGGAACTTT TGTGGCCTCC AACCTTTTC TGTAGGCCGC CTTAAGCTTT CTAAATTTGG AACATCTAAC AAGCTGAAGN GGAAAAGGGG GTTTCGCAAA AT  (2) INFORMATION FOR SEQ ID :783:  (i) SEQUENCE CHARACTERISTICS:

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(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 5 (xi) SEQUENCE DESCRIPTION: SEQ ID :783: 50 CACAGCCAGA GCTTCGTCCT CAGTGACCAC AGGGCTGAGC CAGGCTCAAC 10 CGGCTTCTGG CTCTTGTTTT GCAGAAGAAG AACTAGAAGC AAGGNGCTTT 100 CCTCCGGGTC CCAGAGCTGT TAGTGATGGA GCCAGGCCTG GGATCCAGCT 150 200 15 TTCCTGAGTT CCTGACCCCT GCTATTTTAT TAGTCAGCTC TCAGCACTTA CCAGAGGAAC AGGCAGCCTT TTGGCTACTG CCTTCAGAGA AAGAGAGATG 250 295 AGAGAATTCA AATGCGTGTT GGTGTTCCTG TTAGTACAAG CAGCA 20 (2) INFORMATION FOR SEQ ID :784: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 295 base pairs (B) TYPE: nucleic acid 25 (C) STRANDEDNESS: double (D) TOPOLOGY: linear 30 (xi) SEQUENCE DESCRIPTION: SEQ ID :784: CAATAGCGAC TTCTGGTGTC AATTCGATAA TCGGCCAATG GATACTTCAC 50 GTGTGTTTCA TCGTCTGTAA TAACGGCGAA TGGTGTCACT TCAGAACCAG 100 35 TACCTGATGT TGTTGGAATG GCAACCATTT GTGTCAAACG CACTGGTAGA 150 ACTTCACGAT ACGCTTACGG ATGTCCATGA ACTTTTGTTC TATTTCCATG 200

AACAATTCCT TGATACCTTC TTCGTCTGAC AAAATACCTT CGTGACGTGT

250

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TGAGTATTCG TACAAGAAGC GACCAATCTT ACCGGCATCA AGTGC 295

	(2) INFORMATION FOR SEQ ID :785:	
5	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 303 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :785:	
15	GTGTAAAGCG AGTAGCCCCC AAATCAGTCA TCTTGGCCTG AAGATGTAAA	50
	CAAGGAGGTT TGCTTCCTGC AAGATGAGTA CTTCACTGAG TTTGGTTTTC	100
20	ATTTTTCCTA CACCGAAGCC ACCTCTGTCC ATCCAATGTT CATGTCTGTC	150
20	CGAGGCTGCG CAGGAGGTTA CGTCAAGATG TGGCCAATAA AGTCCAAAAA	200
	GCGCTTTGAA TACTGTTCTG GGTTCACGGT GGAGATCTCC GCGCAGCCAT	250
25	GTTTAACAGT TTTTGCAGCA TGGGCAGCTT TCTTTTTTGC ATCATAATGA	300
	GTA	303
30	(2) INFORMATION FOR SEQ ID :786:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 255 base pairs	
	(B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID :786:	
40		
	TATGCCGCG ATCCTAACGG CTGGAATGAA GATATGCCAA CGTACAGCCT	50

·	CTATGACCCA GCCATGGGAT CAGGCTCATT GCTTTTGACG ACTGCTTCAT	100
	ACATGAAGAA TGATGGTGTT CGTGGGGCCA TTAAGTACTA AGCCAAGAAG	150
5	TTATCACGAC AACCTATAAC TTGGGCCGAA TTAACTTGAT GATGCACGGG	200
	GTGGAGTATA ACGATATCAA TATCCATAAT GCAGATACCT TGAGTTCAGA	250
10	CTGGC	255
10	(2) INFORMATION FOR SEQ ID :787:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 206 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	·	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :787:	
	CATTGAAAAG TGCCTGAAAA ATGGTAAATT CTTAAATGTG TGTGAGATTG	50
25	TCAGAATCAA CAAAACTAGG TTGGTTAAAC ATATCTCTGG TACATCAAGG	100
	GGCATGATAC AAACCAGTCT AAAGACTGTT TATAAAGGAG AGAGCTGGCG	150
	ACTTATTTT ATTTTTTTT TTTTGGACAG ACTCCCTTTG TCCCCAGGCC	200
30	ACTIVITIES HITTIIII IIIIIGAACAG ACTOCOTTIG TOCOCCAGGOO	200
	GGAGTG	206
		200,
	(2) INFORMATION FOR SEQ ID :788:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 260 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	•	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :788:	
	ACAAATAGCG ACCTCCTGGA GAAAAATCGA AAACGGCCAA GTGGATACCT	50
5	CACGTGGTTC ACGTCTGAAC AACGGCGAAT GTGAGCTACC TCAGAACCAG	100
	TACCCGAAGT TGCTGGAAGG CAACCACATT TGGTTCAAAC GAGGCGTGGA	150
10	AGAACCTCAC GACACGCTTA CGGAGTCCAT GAACGCTTGT TGCAATCCAG	200
20	GAACAATTCC GCGACACCCT TCGTCTGACA AAAAACCTTC GTGACGCGTC	250
	GAGTATCCGC	260
15	(2) INFORMATION FOR SEQ ID :789:	
20	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 208 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :789:	
	AACCCACCAT GGTGCTGTCT CCTGCCGACA AGACCAACGT CAAGGCCGCC	50
30	TGGGGTAAGG TCGGCCTGCG CACTATGCGT GAGTATGATG CAGAGGCCCT	100
	GGAGAGGATG TTCCTGTCCT TCCCCACCAC CAAGCCCTAC TTCCCGCACT	150
	TCGACCTGAG CCACGGCTCT GCCGAGGTTA GGGGCCACGA CAAGAAGGTG	200
35	ATCGACGC	208
	(2) INFORMATION FOR SEQ ID :790:	
40	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 289 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li></ul>	

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## (D) TOPOLOGY: linear

•		
. 5	(xi) SEQUENCE DESCRIPTION: SEQ ID :790:	
	AAAAGAAGTA CGGTAAGGCA AATCCTGAAA TTAAGAGTTA CTATGTGCCT	50
	GAAAATACAT TGTTCTACTC ATTTAGTGTG ATGGCAATGG GCGCCGGCGC	100
10	ACTOTTGCTA TOGACCATOG TOGCGCTTTG GATGAACCGT CGTAAGTCAC	150
	AATTAATGTA GACACAACGT CGATTCTCGT GACTTATGGG GATCGCAACT	200
15	TTCGCGCCAT TCTCGATCAA CACAGCCGGT TGGTCAGTGA CTGAATTAGG	250
	TCGTTATCCA TGGGTTGTTT ATGGCTTGAT GCTAATAGC	289
	(2) INFORMATION FOR SEQ ID :791:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 232 base pairs	
	(B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :791:	
30	TTTCCTGTGG AAGTAGTTAA ATTGATAAAT TCCAAAAATT TGGCAATTAA	50
	TTGCTCATTA TTAATGGTAG AGTTTCCATT AATGAAGTTG GAAAATACGG	100
35	TGAATCTTTC AATGAACTCA GTTAGACATT CGGAATGAGC TTCATACATT	150
	GTCTTATTAT CTTTCTTCAA TTTATCCTCC AAATCTGGGA ATTCTGATAA	200
40	CCAAATTGAA GCACCTTATC TATGATCCGG GC	232
	(2) INFORMATION FOR SEO ID :792:	

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(A) LENGTH: 232 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double

(i) SEQUENCE CHARACTERISTICS:

5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :792:	
10	TTTCAACAAA CAGAAACCAA TTTCCAACCA GAGGGCGATT TCTCCTTGTC	50
	TGGTAATATC GAACAAACTA TTTTTAAGAA CTTGATTTCT GGCAACATTA	100
15	AGAGCGCTGT GAAAAATTCT CTAGAGAATG ACTTACTAAC GGAGGCCATG	150
	GCGATCGCAT TAGATTCAAA TAACGAAAGA TCAAAGGAAA GTGTCAAGAA	200
20	TGCCTATTTC GCGAAGTATG GATCTAAATA AC	232
-	(2) INFORMATION FOR SEQ ID :793:	
	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 292 base pairs</li></ul>	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :793:	
35	GGGAACATAT CTTCACGGTA GTGANCCCAG TGACCAGATG TCTTATACAA	50
	GTTCAAGTTA GACAAAACGG GTGTATACAC GTGTTGGTAA CCATTGGCCA	100
	ATTCTTTGTC GGTGATGTAA CGTTCAACTT GACGGCGAAG CGATTGCCCC	150
40	ATTTGGTAAC CAAACTGGCA AACCTGAACC CACTTCTTGA CTCGTAAAGA	200
	ACAAGTCCAT GTCACGACCA ATCGTCCGGT GGTCACGTTC TTTAGCTTCT	250

	TCACGACGTG CAATTCTGCT TCAACGTCGG CTTGCTTCCA TT	292
	(2) INFORMATION FOR SEQ ID :794:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 288 base pairs	
	(B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :794:	
15	CAGCAGGCAC AACACCATCG GTTGTCGCTG AAAGTATTTT TAAGTCTTTG	50
	GCCAAGAAGT CAGTTTCAGC TAAGTTAGAC GGCACTTATG CGGGTATGCA	100
20	TGATGTCATT CCTGCATCCG ATGATTTTTA ATTAATTACA ACAACTGATG	150
	ATGAAGCGTC GAATTCGTCG CGTCATTCTG CCTCACACTC ACAGGCACAA	200
	GCCTTAAAGC ATTTGCCAAA GTTTGCTAAC ATGCACTTTG GCGCGGCAAC	250
25	CATTTATTGA AAATGGTTTC TACTATGATA CAAATAAC	288
	(2) INFORMATION FOR SEQ ID :795:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 258 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :795:	
40	GTGGCTATGT ATAAGCAGAT ATTATCTAGT AAATGTAAAG TGAACCCAAT	.50
-	CGATAGACCC AAAAAGTGTT TTAACTGGAA AACACCTTAT GAGGTTTATT	100

•	TTGATGAAGT GTTGCAGTTG GTTTGATAAT TCAAGGCATT AAGGCAATAT	150
	CTCAATCACC GCATTTTCCA CAACCGGCCA CAAAACAGCT CGTCTATTTC	200
5	GAGGTCAGTT ACGGCGTCCA GTCTTTGAGC AGATGATTTG CCCCGAGTGA	250
	TCGTCGGC	· 258
10	(2) INFORMATION FOR SEQ ID :796:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 270 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :796:	
	TGCTTCAAAG CCTGGCTTAA CCCGCTTGCC CACCAACTTC AATTATACCT	50
	GCCCCTTTGC CTAACATCTC ACCGACTCGG GCAACCATCG TATCAACACC	100
25	CGCGACTCGA TCCCCATCGT AAAATGATTC CGAACTAACA TTTAACACAC	150
	AATAGATAAT ACCATCAGCA TAATGCAAGG TTTTACCATC CACGACCCAG	200
30	AGGCGATCAA TCGCGACTAA CCGTCGTTGT AATTCAGGAC TAGCGGTACG	250
	CTCATGTAAC GCGACAATAT	270
	(2) INFORMATION FOR SEQ ID :797:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 210 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	

·	(xi) SEQUENCE DESCRIPTION: SEQ ID :797:	
	AAATATCGCT GCGTGCAGCT GAGTTACTAG CTGTTGAAAC TTATCGTTAC	50
5	TTGTGTAGGT TGTCTGAAAC GGTCGCAGTC ACCGGTTAGC TTGATAAGTC	100
	AGGTTTTCAG CAACTGTCAT CAAGCCATCA CGACCTATAT AAGCCACTGC	150
10	AATCGCACTT TACATCATTA AGACCCTTAC TAGAAGTAAC TGGCCATCCT	200
	GCCACCGCTT	210
	(2) INFORMATION FOR SEQ ID :798:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 218 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :798:	
25	ATCATAAGCG CTGGAACTTG GGGCATTGTA CAGGGACAAC TTCGGCCTTT	50
	GTTÄGCCCCA AGAGTCTACA CTCTGCCAAT GGTGCGCTCC ATAGGAAAAA	100
30	CCACGGTCCA AGGCAAAAAC TACGAACCTC AGATAACCGC AAAGAGGATA	150
	TCAACCAGAG GACGGAAATG TAAGCCTATT TTAGCCCAAA TAACGAGACA	200
	AGTAGTTGAG CTAAATGC	218
35	(2) INFORMATION FOR SEQ ID :799:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 176 bass pairs	
	(B) TYPE: nucleic and	
40	(C) STRANDEDNESS: double	
	(D) TODOLOGY. linear	

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	(xi) SEQUENCE DESCRIPTION: SEQ ID :799:	
5	CCTATCAGAA TCCAATGAGA ACTACAATGG TGTGCCCAGA CGTAGAGCTG	50
	AGAATAGCAT TACCAAATGG AACAACGTGC TACAGTCAGG ATTAAAAAGA	100
	ACANTACTAC ANACCAAGTA TATCAGGCTA TTATAGCAAA GGCTGCCATG	150
10	AACAATACAA CACTGAATTA CTCGGC	176
	(2) INFORMATION FOR SEQ ID :800:	
•	(i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 254 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :800:	
25	GCAATTGCTT AATTTGTTCT TCCTTCTTAG CATTTTGCTG AGAAGCCAAA	50
	CGTTGCGCCA ATTCAGAAGA TTCACGCCAG AAGTCGTAGT TACCAACGAA	100
	TGGTGTGATC TTACCAAAGT CAACATCCAA GATGTTGGTT GACACGGCGT	150
30	TTAGGAAGTG ACGGTCGTGG GATACCACAA TCACTAGGTT CGGGAAATCA	200
	GCCAAGAAAT CTTCTAACCA GTTAATTGTC TGCACATCCA GACCGTTGGT	250
35	TCGA	254
	(2) INFORMATION FOR SEQ ID :801:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 203 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :801:	
,5	ATCCAGGCCC ATACCCATCA ACCCTGAAAC AACGATTGAA TCACCAGCCA	50
	TTTAACCACA CATTGCAACA AACTCACATT GGGTTCCGAG CGGCAGTAAT	100
	AACACAGTCG ATCAAACGCA AAATAGATGG GCAATAAGGT CGATACAAAT	150
10	AGGCAACCTT ACAATTACCA CGATCTGTAG CTATCGTATA ACCAATGAAA	200
	ATG	203
15	(2) INFORMATION FOR SEQ ID :802:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 193 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	·	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :802:	
	GACACAACTG TGTTCACTAG CAACCTCAAA CAGACACCAT GGTGCACCTG	50
	Charles Total Control	30
	ACTCCTGAGG AGAAGTCTGC CGTTACTGCC CTGTGGGCTA GGCGAACGTG	100
30	,	
	GATGAAGTCG ATGGCGAGGC CCTGGGCAGG CTGCTGGCGA TCTACCCTTG	150
	GACCCAGAGG TTCTTTGAGT CCTTTGAGGA TCTGTCAACT TCC	193
35	(2) INFORMATION FOR SEQ ID :803:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 290 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	AN TOPOLOGY: LINASY	

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	(xi) SEQUENCE DESCRIPTION: SEQ ID :803:	
_	AACAAAAGTT GAAAATTTTA AATGGTCTTT TTATGGTTTG CGTGACCTAA	50
. 5	AAAGACAAAG TTTATCCTTG CCTTACTGTA TAGAAATGCG TCGTATCCAC	100
	AATAGCGTAC AGATTTTTCC GCATTAATCC GTGTTTATAT TAACAGATTC	150
10	GTTAAGTATC GTTTAAAAAG GGAGAGAGGG GATACCCTCT CTCTAGATAA	200
	ATGGGTCATC ATTTAATCCC AAGAATGATG TCGATAAGTA CTTTTCTAAA	250
15	CGATARCARG ARCCCCAGTA GGTAGTATAG CAGTCTTTAA	290
15	(2) INFORMATION FOR SEQ ID :804:	
20	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 256 base pairs</li><li>(B) TYPE: nucleic acid</li></ul>	
	<pre>(C) STRANDEDNESS: double (D) TOPOLOGY: linear</pre>	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :804:	
	AACTTGATGG TCGAGGCCAT CTCCTGGGCC GCCTGACGAT ACCGTGGCTA	50
30	AACAGGTACT GCTGGGCCGG AAGGTGGTGG TCGTACGCTG TGAAGGCATC	100
	AACATTTCCG GCAATTTCTA CAGAAACAAG TTGAAGTACC TGACTTTCCT	150
35	CCGCAAGCGA ATGAACACCA ACCCTTCCCG AGGCCCCTAC CACTTCCGGG	200
33	CCCCCAGCCG CATATTCCGG CGGACCGTGC GAGGTATGCT GTCCCACAAA	250
	ACAGGG	256
40	(2) INFORMATION FOR SEQ ID :805:	

(i) SEQUENCE CHARACTERISTICS:

404

(A) LENGTH: 286 base pairs
(B) TYPE: nucleic acid

	(C) STRANDEDNESS: GOUDIE	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :805:	
10	AGCAACCTCA AACAGACACC ATGGCGCACC TGACTCCTGA GGAGAAGTCT	50
	GCCGTTACTG CCCCTGTGGG ACCAGACGAA CGCGGATGAA GTCGGCGGCG	100
	AGGCCCTGGG CAGGCTGCTG ACCGATTTAC CCTTGGACCC AGAGATTCTT	150
15	TGAGTCCTTT GAGAATCTGT CCACTTCTGA TGCTGTTATG GGCAACCCTA	200
	AGACGAAGGC TCATGGCAAG AAAGTGTTCG GTGCCTTTAG TGATGACCTG	250
20	GCTCACCTGG ACGACCTCAA GGGCACCTTT GCACAC	286
	(2) INFORMATION FOR SEQ ID :806:	
25	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 291 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :806:	
	TTCTTCATCA GATTTTACAT CTGCCTGATT AGAATCTTCT ACACTGGCCT	50
35	CAGAAGATGA TTGTTCAAAA CTTTTTCTAA GTTGCTGTAA AAAAACTTCC	100
	ACGGACAAAG TAAAATGCAG TTCTTTATCG TTTAGCCAGT GTACAACAAA	150
40	AGGTCCAATC TTCTCTTCAT TTTAATTCAG ACTCAGAGAT GTAATAGATG	200
	GAAGAAGTGA AATGTCTGTG GCTGGGTTGA TGCTGGCTGC AATATGAAAG	250

	TGGCAAAGTG CATTGCTATG CAGTGGAGTG TTACTGTGGA C	291
	(2) INFORMATION FOR SEQ ID :807:	
. 5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 276 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :807:	
15	AGTTTAATCA GCTGCAATGA AAACAAACGT CTTTTATTAG GCAGAATCCA	50
	GATGCTCAAG GCCCTTCATA ATATCCCTTA ATTTAGTAGT CGAACTTAGG	100
20	GAACAAAGGA ACCTTTAACA GAAATAGAAC AACAAGAAAG CGAACTTAGC	150
	GATACTCGCG GGCCAGGGCA TTAGCCACAC CAACCACCAC TTTACGATAG	200
	GCAACCTGCA CTGGAGGGGC GACTTCTCCG CCAAAGCGAC GGGCCAGCAC	250
25	ACAGACCAGC ACGTCGCCCA GGAGCC	276
	(2) INFORMATION FOR SEQ ID :808:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 218 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :808:	
40	GGCCTGCCAA CAGCATAGGG AAGAATCTCA TTGTTATACA TATTAAGAAT	50
	CGATTCTAAA TAGACCTTTT TACCAGTCGC TGAAACTCTT AAATTAAGTA	100

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	ACATCGCTAG CTAATTTCG TAATGGCCGA TTAATCTTGA AACGGCGGCG	150
	AAGCTTGTTC TTCACACGTT TCCCTTCAGG TCCTTTGATG AATCATACTG	200
5	ACGTGATCGC TTATCGTA	218
	(2) INFORMATION FOR SEQ ID :809:	
10	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 276 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	
15		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :809:	
20	AGCAACCCAG CGCTCAATGG TGCTAGTGAA CACAGTTGTG TCAGAAACAA	50
	CCTCAAACAG ACACCATGGT GCACCTGACT CCTGAGGAGA AGTCTGCCGT	100
	TACTGCCCTG TGGGCAAAGG CGAACGCGGA TGAAGTCGGC GGCGAGGCCC	150
25	TGGGCAGGCT GCTGGCGATC TACCCTCGGA CCCAGAGGTT CTTTGAGTCC	200
	TTTGGGGATC TGTCCATTAC TGATGCCGTA TGGGCAACCC TAAGGCGAAG	250
30	ACTANTGGCA AGCANGTGCT AGACGC	276
	(2) INFORMATION FOR SEQ ID :810:	
35	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 199 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :810:

•	GACTCCACCT GAACGGGCCC CTTCTGAACC GCCTCTGTGG GAGCAGGCCC	50
	CATCTGAGGA GGGTCCATCT GAGCAGATCC CTTCTCAACA GGTTCCTTCT	100
5	GAGGAGGCTT ACTGCTTTTC TTACTCGATT TATTTTTCAG AGTTTTCTTC	.150
	TTCGTACTTT TTTTAACGCA AGTATTTTGC TTTTTATTCT CCTCCATTT	199
	(2) INFORMATION FOR SEQ ID :811:	
10	· · · · · · · · · · · · · · · · · · ·	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 254 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :811:	
20	. , -	
	AAACAGCACA ACCAATGACA GGATGCAAGA ACTGATAGGG CGCCGCAAAA	50
	AAAAAGCGGG CCAAAGATGA AGTAAATAAA CGTAAGGGAG GTACCGAATC	100
25	TGGGGGGCTT GGCGTAGAGT AAGGGAGAGG AGCTTCAACT ATCTCAATAA	150
	COCCUSION NOTICE OF COMMON	200
	GGGCAAGAAA ACACAAACAA CTCCTTCATT CGTCCAAAAT GCTTCTGAAT	200
	TGCACCACAA TTGACACACA CACACCTCAA AGCAGAATCC GCACTGACCT	250
30	100,000,000,000,000,000,000,000,000,000	230
	AAGT	254
	(2) INFORMATION FOR SEQ ID :812:	
35	(i) SEQUENCE CHARACTERISTICS:	
33	(A) LENGTH: 284 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

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	(xi) SEQUENCE DESCRIPTION: SEQ ID :812:	
	TTTTTTTTT AGCAATGAAA ATAAAAGTTT TTTATCAGGC AGACTCCAGA	50
5	CGCTCAAGGC CTTTCACAAC ACCCCCCAAT TTAGCAATAG ACTTCAGGGA	100
	CCAAAGGACC CTTTAACAGA AATAGAACAA CAAGAAAACA AACTCAAAGA	150
10	CACTCGAGGG CCAGGGCCTC ACCACACCAA CCCCCACTTC CAAACAGGCA	200
10	ACCTGCACCG GAGGGGAGAC TTTTTCGCCA AAGCGACGGG CCAGCACACA	250
	GACCAACACA TCGCCCAGGA ACCTGAAGTT TTCA	284
15	(2) INFORMATION FOR SEQ ID :813:	
20	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 279 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :813:	
	ATACAACAGC AGAAACAGGT ATCCACGCAC AGTCCAGCAA CATTTCTTCT	50
30	GGTACAACGC AGCTTCAAAG TTCACATCAA ACGTTACTTT GTCATACCAA	100
50	GGCAAGGATG CTAACTCGAA GTCAATCACG CGAGTGATGT CATTCACAAC	150
	CGGTCACGGT GCCGATGTGA CAATCAAGAC TGAAGGCGAT GACGAAGAAG	200
35	CAGCACTGCC CGCCGATAAC CGCAGCGATG CAAAAAAAA AGCTAGACGA	250
	CTGACGAAAC CTGAGAACCC CGAAGGACT	279
40	(2) INFORMATION FOR SEQ ID :814:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 208 base pairs

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(B) TYPE: nucleic acid

	<pre>(C) STRANDEDNESS: double (D) TOPOLOGY: linear</pre>	
	(b) Torobodi. Illiedi	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :814:	
10	AACGTGCTGG TCTGTGTGCT GGCCCATCAC TTTGGCAAAG AATTCACCCC	50
	ACCAGTGCAG GCTGCCTATC AGAAAGTGGC GGCTGGCGTG GCAACAGTGA	100
	CTGAGAAGAC CAAAGAGCAA GTGACAAACG CCGAAGGAGC AGTGGCGACG	150
15	GGCGTGACAG CAGTAGCCCA GAAGACAGCG GAGGGAGCAG GGGGCATCGC	200
	AGCAGCCA	208
20	(2) INFORMATION FOR SEQ ID :815:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 192 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :815:	
	AAACCACGCT CAGTCAGGTT CCGGCAGCAG CTGCAGCATC TCATCTTCTG	50
	CGACTCTCGG TGCCCTCTCC TTCCGATTTC CGGAAACATG GCCTCCGATG	100
35	TGGCTGTCTC TGACGACGTC ATCAAGGTGT TCAACGACAT GAAGGCGCAC	150
•	AAGTCTTCAA CGCCAGAGGA GGTGAAGAGG CGCAAGCAGA TA	192
10	(2) INFORMATION FOR SEQ ID :816:	
•	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 264 bas pairs	

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(B) TYPE: nucleic acid

	(C) STRANDEDNESS: GOUDIE  (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :816:	
10	GAGAGAACCC ACCATGGAGC TGTCTCCTGC CGACAAGACC AACGTCAAGG	50
10	CCGCCTGGGG TAAGGTAGGC GCGCACAATG GCGAGTATGG TCGCAGAGGC	100
	CCTGGAAAGG ATGCTCCTGT CCTTCCCCAC CATGTGAGAC CTACTCCACA	150
15	CACTTCGACC TGAGCCACGC CTCTGCCAGG TTAAGGGCCA CGGCAAGAAG	200
	GTGCCCGACG CGCTGACCAA CGCCGTGCGC ACGTGGACGA CATGCCCAAC	250
20	GCGCTGTCCC CCTG	264
20	(2) INFORMATION FOR SEQ ID :817:	
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 202 base pairs	
25	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :817:	
	ACCCTACACA CATCCGTTCA ACTGTCCCAT CACCCACTTA CACTCCAAAA	50
35	AAAACCACTC AACAAGCAAA CAACCCATCC TGTTTTCATA ACGTTATCGT	100
	AAC AAAG CCGACCATAA TCAACTTGAA TTTACTTCAC CACAAGGCAA	150
	AGCGATTATT TAGATGAGGC ACTCGCACTA CTGCTTGAAG TGCTACTAGA	200
40	TG	202

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	(2) INFORMATION FOR SEQ ID :818:	
.5	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 179 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :818:	
	AGTAGAAAAT AAGTTCAAAA TTTTAGAAAT ACTGGCTTTA TACTCGCCCA	50
15	TGTATTTACA TTCACAGAGA TCTTTATTTA TTTACAAGCG CTTTGAGTTA	100
	CTGTATAGTT TTTTTTAACA AAAAAGCGTG GGGGGCTCCC TTTAGCATTC	150
20	CCCATAGGAT AGGTAATGAA CTTTTTGTT	179
20	(2) INFORMATION FOR SEQ ID :8.9:	
25	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 260 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :819:	
	TGTGCTCTTA TGCTAGATTT ACGGACAGAT TTTCTTCTGC CCTGTAAACT	50
35	AATAGCATAG GAGCATTTTT TAATACGATT CGATACAAAA AAGAATTTAA	100
	GCAATCTCTC GCCGAGACGC ACAATCAAGA CCATTCATAT ACTGATCTAT	150
40	CCGCTGAATA CGAACCTTCA ATCGACTCAA TCCGTAACTG GATCAAGTTG	200

TACGCGGGTC CACGAAGTGA CAGACGAAAA ATGAACGCAA GCTGATGTAA

	ACGCATCACA	260
	(2) INFORMATION FOR SEQ ID :820:	
5	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 226 base pairs	•
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :820:	
15	ACTCGGCACT TTCTTAGAAT AGACAATTTG CAAAATGTCC ATCCCAGGTT	50
	CATCCTTGTA GCCTAATGTT TCCGTCACCG TTGCCACTAG TTAACGTGGG	100
20	TGAACTTTAT CTGGGAAACG GGTAACATCC GCGACCACAA CTAGACCATC	150
	ATTTGACGTA ATGCCATCAG CACTCACCAA AACTTGGCCA ACCAACAGCC	200
	TTTCCGTAAC TGAGTTTGAT TTCTCC	226
25	(2) INFORMATION FOR SEQ ID :821:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 197 base pairs	
30	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :821:	
	CACCTACATA TAGATGCACG AAGTACTTGC TCACTTTTTT TGGTTGTAAA	50
40 .	TTTTCAAAGC GTTGAAGGCA GCATTCTTAG CGGCACGGAT GTCCTTATCA	100
	GTGAATGAAT CAGGCTTTTC CATGGCCAAC CAACCAACGA TTCGCATCGC	150

	GTGATTTCGA ATCATGTCAA GCAAAGCACC GGCTGTATCA TAGTAAC	197
	(2) INFORMATION FOR SEQ ID :822:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 304 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :822:	
15	GGACTGGGTG CAGTGGCTCA CACCTCACGT TACATTTTAT AGCTAGCAGG	50
	GTAATGGGGA GTTATGGCAC TCAGGTCACA TTCTAGGGAA TGTTTATCGG	100
20	GCAATCTCAA TGGCACCGCA AGCTAAATGA CTTCCAGTGT TTCTCATCTT	150
	TGCGCTTTCT TCATCGCAAC CTTTGCCCAA GACATCTGTT TTTTCTGGAT	200
	CACCCTTGCA CAGCCACTGA GGAATGATCT TCTGAAAGTG AATCTTCAGT	250
25	AGACACATCG CCACACCATC TANGTCAGCC ATCACATGCC CAGGTCTNGA	300
	CATG	304
30	(2) INFORMATION FOR SEQ ID :823:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 197 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :823:	
40		
	GGCCCAGCAG ANGGAGGAAC ACTACCGAGG CTCCAGCTTA ACGGTATTTG	50

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•	•	GAGGTCAGCA CGGTGCTCAC AGAAGCCAGG AACTTGCCCA GGGAGGCGTG	100
(2) INFORMATION FOR SEQ ID :824:  (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 281 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID :824:  (xi) SEQUENCE DESCRIPTION: SEQ ID :824:  CAGTTAGTGC GAGAGCCTGT GGATGGCATA GTTACATAAG AGTCTGTTGT 100  GGATTCAAAT GTCACCTCTT CCAGGCAGTC TTTCCTGACT TACCCTGGCA 150  GGATTGATGT CCCACATTAC TAGTAATGTT TTTTTCCTTA ATAGCAATGA 200  TTTCACTGTA ATAATGTATT TATATGCCTC TCTCCCCCAG ACAGCAAGCG 250  30 TTTTCCCACA GGTCTCGACA CACAGAAGAT A 281  (2) INFORMATION FOR SEQ ID :825:  (i) SEQUENCE CHARACTERISTICS: (i) SEQUENCE CHARACTERISTICS: (B) TYPE: nucleic acid (C) STRANDEDNESS: double		CACCAANGGG GCGAACTCNC GGGGAGGGGG GCGACCAGGG TCACCAGCAG	150
10 (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 281 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear  15  (xi) SEQUENCE DESCRIPTION: SEQ ID :824:  20 AAAAACAATG TCATTTTGTA CAGACAAAAT TTAGCAGACT CAAGCTTCCA 50 CAGTTAGTGC GAGAGCCTGT GGATGGCATA GTTACATAAG AGTCTGTTGT 100  GGATTCAAAT GTCACCTCTT CCAGGCAGTC TTTCCTGACT TACCCTGGCA 150  GCTTTGTGTT CCCACATTAC TAGTAATGTT TTTTTCCTTA ATAGCAATGA 200  TTTCACTGTA ATAATGTATT TATATGCCTC TCTCCCCCAG ACAGCAAGCG 250  30 TTTTCCCACA GGTCTCGACA CACAGAAGAT A 281  (2) INFORMATION FOR SEQ ID :825:  (i) SEQUENCE CHARACTERISTICS: (i) SEQUENCE CHARACTERISTICS: (ii) SEQUENCE CHARACTERISTICS: (ii) SEQUENCE CHARACTERISTICS: (ii) SEQUENCE CHARACTERISTICS: (iii) SEQUENCE CHARACTERISTICS: (iiii) STRANDEDNESS: double	· <b>5</b>	GCAGTGCTTA GGAGCTGGGA GCCGACCGAG CCCACCGAAC TCGCGCG	197
(A) LENGTH: 281 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear  15  (xi) SEQUENCE DESCRIPTION: SEQ ID :824:  20 AAAAACAATG TCATTTTGTA CAGACAAAAT TTAGCAGACT CAAGCTTCCA 50 CAGTTAGTGC GAGAGCCTGT GGATGGCATA GTTACATAAG AGTCTGTTGT 100 GGATTCAAAT GTCACCTCTT CCAGGCAGTC TTTCCTGACT TACCCTGGCA 150 GCTTTGTGTT CCCACATTAC TAGTAATGTT TTTTTCCTTA ATAGCAATGA 200 TTTCACTGTA ATAATGTATT TATATGCCTC TCTCCCCCAG ACAGCAAGCG 250  30 TTTTCCCACA GGTCTCGACA CACAGAAGAT A 281  (2) INFORMATION FOR SEQ ID :825:  (i) SEQUENCE CHARACTERISTICS: (B) TYPE: nucleic acid (C) STRANDEDNESS: double		(2) INFORMATION FOR SEQ ID :824:	
20 AAAAACAATG TCATTTTGTA CAGACAAAAT TTAGCAGACT CAAGCTTCCA 50 CAGTTAGTGC GAGAGCCTGT GGATGGCATA GTTACATAAG AGTCTGTTGT 100  GGATTCAAAT GTCACCTCTT CCAGGCAGTC TTTCCTGACT TACCCTGGCA 150  GCTTTGTGTT CCCACATTAC TAGTAATGTT TTTTTCCTTA ATAGCAATGA 200  TTTCACTGTA ATAATGTATT TATATGCCTC TCTCCCCCAG ACAGCAAGCG 250  30 TTTTCCCACA GGTCTCGACA CACAGAAGAT A 281  (2) INFORMATION FOR SEQ ID :825:  (i) SEQUENCE CHARACTERISTICS: (b) TYPE: nucleic acid (c) STRANDEDNESS: double		(A) LENGTH: 281 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
CAGTTAGTGC GAGAGCCTGT GGATGGCATA GTTACATAAG AGTCTGTTGT 100  GGATTCAAAT GTCACCTCTT CCAGGCAGTC TTTCCTGACT TACCCTGGCA 150  25  GCTTTGTGTT CCCACATTAC TAGTAATGTT TTTTTCCTTA ATAGCAATGA 200  TTTCACTGTA ATAATGTATT TATATGCCTC TCTCCCCCAG ACAGCAAGCG 250  30 TTTTCCCACA GGTCTCGACA CACAGAAGAT A 281  (2) INFORMATION FOR SEQ ID :825:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 312 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double		(xi) SEQUENCE DESCRIPTION: SEQ ID :824:	
GGATTCAAAT GTCACCTCTT CCAGGCAGTC TTTCCTGACT TACCCTGGCA  GCTTTGTGTT CCCACATTAC TAGTAATGTT TTTTTCCTTA ATAGCAATGA  TTTCACTGTA ATAATGTATT TATATGCCTC TCTCCCCCAG ACAGCAAGCG  TTTTCCCACA GGTCTCGACA CACAGAAGAT A  (2) INFORMATION FOR SEQ ID :825:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 312 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double	20	AAAAACAATG TCATTTTGTA CAGACAAAAT TTAGCAGACT CAAGCTTCCA	50
GCTTTGTGTT CCCACATTAC TAGTAATGTT TTTTTCCTTA ATAGCAATGA 200  TTTCACTGTA ATAATGTATT TATATGCCTC TCTCCCCCAG ACAGCAAGCG 250  30 TTTTCCCACA GGTCTCGACA CACAGAAGAT A 281  (2) INFORMATION FOR SEQ ID :825:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 312 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double		CAGTTAGTGC GAGAGCCTGT GGATGGCATA GTTACATAAG AGTCTGTTGT	100
TTTCACTGTA ATAATGTATT TATATGCCTC TCTCCCCCAG ACAGCAAGCG 250  30 TTTTCCCACA GGTCTCGACA CACAGAAGAT A 281  (2) INFORMATION FOR SEQ ID :825:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 312 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double	25	GGATTCAAAT GTCACCTCTT CCAGGCAGTC TTTCCTGACT TACCCTGGCA	150
30 TTTTCCCACA GGTCTCGACA CACAGAAGAT A  (2) INFORMATION FOR SEQ ID :825:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 312 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double			
(2) INFORMATION FOR SEQ ID :825:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 312 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double		. · · · · · · · · · · · · · · · · · · ·	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 312 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double	30	•	281
35 (A) LENGTH: 312 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double			
	35	<ul><li>(A) LENGTH: 312 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li></ul>	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :825:

PCT/GB93/01467

	TATTAAATTT ACTAGAATGT TACAGTTACA AATTTGGTAA TGTTCTTTCT	50
	GAAAAACAGC CTAATTTTGC AGCCTGAAAC TTGACTGAAA ATCTCAATAC	100
5	TTTTATTCAT GATAGAAAAA TAATTCCTGG CTTCATCTCA CAATTAACTA	150
	ATAATTATGT TAATATAAAA TATAACTGTG CCCTTTCTTT TCAGTGATGA	200
	TCAAAGTGAT TCTCCCAGGC CAAAAAATCA AATAAGAAGT TATATTTTAA	250
10	AAAGACATAA CAAGCCATTC TACCCAGTGG GCATCTTCAG TGTACTCCCT	300
	CTACTAATTG GC	312
15	(2) INFORMATION FOR SEQ ID :826:	
20	<ul> <li>(i) SEQUENCE CHARACTERISTICS:         <ul> <li>(A) LENGTH: 189 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul> </li> </ul>	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :826:	
	ACACCAAACA CGGGGAGTGG GGAGTAGAGG CTCTGGAGGT CAGGATGGCA	50
	GGGCAGGGAG GGGAAGGAAG GAGTTGTTGG TCTCACAGTG TGCCTGCCAA	100
30	TCCCAAAGCC CTAGAGACCC CTTCACTGCA GCACCTGCCC CCGGGTCTCA	150
	GGCAGCTTCA GGGCCAGAGA GCTGCCAAGG GCAAGCAAA	189
35	(2) INFORMATION FOR SEQ ID :827:	
	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 232 base pairs</li><li>(B) TYPE: nucleic acid</li></ul>	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

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	(xi) SEQUENCE DESCRIPTION: SEQ ID :827:	
	CTCTTAAGGG CTTGAAAATT TCTGTGGGAG TAGGACAGAG TGTAGAACGT	50
5	ACAGTAAAAG GCAATAAAAC AGTGGGAATA ATTTTACCAG CTATGAGTAA	100
	AGGAGTAATG GGTATTTACT GCCTGTCATT AATCCACACA TATATCCATT	150
10	TTAGAGATTA TTTTGTTGCC TGGAAATCTG TCTCATCACA GAGTGTTAAT	200
	ATACACCGGC GGGATATTCA AGAGTGGCTA AG	232
15	(2) INFORMATION FOR SEQ ID :828:	
15	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 282 base pairs  (B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :828:	
25	GGACATTGGA ACACTATACT CTATTATTGC GGTCGTGCCT AGCAGTCTCG	50
	CGCATGTCTC CTCAGCGCGC ACAGTCTCTC TCAGAGAGCT CTTCTCTTT	100
30	TATATGCGCA GACCCGCAGA CTGGGAGACC CAGACCCAGG GCAAACTCTC	150
	TTCTTAGGTA TATCGCACCC ATCATATCTC ACACATCGTG TATGTCGTAT	200
35	CATCAGACCC CCATAGAGCA TATATGCTAA ATTAATGCTC TCTTTCATCA	250
	GTAATTACCC CATATCATAA AATGCGGGCG GG	282
	(2) INFORMATION FOR SEQ ID :829:	
40	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 230 base pairs	

(B) TYPE: nucleic acid

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417

(C) STRANDEDNESS: double(D) TOPOLOGY: linear

5 (xi) SEQUENCE DESCRIPTION: SEQ ID :829: CACTACATCC GCAAGTACAA CCGCTTCGAG AAGCGCCACA AGAACATGTC 50 TGTACACCTG TCCCCCTGCT TCAGGGACGT. CCAGATCGGT .GACATCGTCA . 100 10 AGTGGGCGAG TGCCAACCTC TGAGCAAGAC AGTGCGCTTC AACGTGCTCA 150 AGGTCACCAA GGCTGCCGGC ACCAAGAAGC AGTTCCAGAA GTTCTGAGGC 200 15 230 TGGACATCGG CCCGCTCCCC ACAATGAAAT (2) INFORMATION FOR SEQ ID :830: (i) SEQUENCE CHARACTERISTICS: 20 (A) LENGTH: 226 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 25 (xi) SEQUENCE DESCRIPTION: SEQ ID :830: TTCCGCAAAT AAAAGAATTC ACTAAGGTAC CAAAACAGAA AATATACAGA 50 30 100 GATCAATGAC TTTCATATAC ATTAACAAAC AAAAGTTCAG AGATAAAATG GAAGAGAAAT GCTGTTTTTA ACAGTATAAT TAAGATAAAA TATGAAGGTA 150 35 TARACTTAAC AAGAAATGTT GCAAAACCAT TATGTGAAAA TTACAACACT 200 226 CCTGAAGACG CAGACACACC TAACAA (2) INFORMATION FOR SEQ ID :831: 40

(i) SEQUENCE CHARACTERISTICS:

418

(A) LENGTH: 247 base pairs

	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
· <b>5</b>		
		,
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :831:	
10	AGAAGTCCTT CCAAGAGTCT TGGGTATGCA ACAGCCATGG AGGCTGTGAC	50
	CTTTTCCTT CTTTCTACA GCCTGCAGTT CATTTAAGGA TCACCGGAGA	100
	·	
	TGACTCGTGC TCTAGTTCTT AAAATCAAAC AAGGATCTGC CAAATCCAAG	150
15		
	ACCCTGAATT TGGCCCAAAT TTGTAGAAAC ATTGCTTTTT ACCACCCGGT	200
	GCACCAAAAA TACCTCCCAT TTCAAGGCAA CAACCGCTTT AATTGCT	247
20	(2) INFORMATION FOR SEQ ID :832:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 112 base pairs	
	(B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		•
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :832:	
	CACCAGGCAG GGGATCCCGG AGGGAAGCCC TCTGCCAGGG ACATGGTGAG	50
	GGCGTGGCCA TCACCCACGA AGGGAGCATA AATAACACTG GCAGGTGGGT	100
35		
	GGGCAGCAGG AG	112
	(2) INFORMATION FOR SEQ ID :833:	
40	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 173 base pairs	
	(B) TYPE: nucleic acid	

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419

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :833: AGCCATTCCC ACTAGAGGCC AAACCGCCTG CCCACAGAGA TTGACAGCCA 50 100 ATGTTCATCT CATAACTCTC CTCCCAGCAG TGCACCAGTA AACTCAGATG 10 CCTGAGTGCT TGTGGCCACC ACACAACAGA TGCGGCCTTC CTCTTCACTG 150 173 GCCCCTCGGC TGCTGCTGGG TCC 15 (2) INFORMATION FOR SEQ ID :834: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 288 base pairs 20 (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 25 (xi) SEQUENCE DESCRIPTION: SEQ ID :834: TGGCCCATGG GAGCCCTTAT GAGCAAGTTT CCAGGTCCTT ATGACACAAT 50 TCCATCATTC TTCGGGTACA TCCTTACTCT CTGGCACAGT AGAGATGTTC 30 100 CAGACTTATC TTATATTTTC ACTTCCCCAT ACCTGGAATC AATCACTTCT 150 CCGAGGATGC TTGATTCCTT TTAGTGAAGA ACAGTCTTTG GAAACCAACC 200 35 GTCTAGGGAC ATCAAGTATG TTTGCCGCTA TTGGAGTGTC ATTGCTCCTG 250 AACCTTCTAA GTGGACACAG CTAGGAAATG TATGTGCT 288 40 (2) INFORMATION FOR SEQ ID :835:

(i) SEQUENCE CHARACTERISTICS:

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420

(A) LENGTH: 310 base pairs

	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5	· ·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :835:	
10	CTTTTCTATT TTCCTTAAGT GTCTGCCAGT CTGAGAAATA AAGGGACAGA	50
	GTACAAAAGA GAGAAATTTT AAAGCTGGGT GTCCGGGGGA GACATCACAT	100
15	GTCGGCAGGT TCCGTGATGC CCCACAAGCC ACAAAACCAG CAAGTTTTTA	150
	TTAGTGATTT TAAAAGGGGA GGGAGTGTAC GAATAGGGTG CGGGTCACAG	200
	AGATAACGTG CTTCACAAGA TAATAGAATA TCACAAGGCA AATGGAGGCA	250
20	GAACGAGATC ACAGGACCAC AGAACTGGGA CCAAATAAAG ATTGCTAAGA	300
	ACGTCTAGGG	310
25	(2) INFORMATION FOR SEQ ID :836:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 177 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :836:	
33	TCAGTGGAGG AATTAAAACT GGTGGAGAAG GGGAGGTCAG GTTATCAGTT	50
	GAAATGCCAA GGTTATCTCT AATCTTAGCT AGATTCTGCC AAAGTTCACA	100
40	GAGGTAATCA AAAACTTGAG CATGTATTTA AGGATCCATG ATTGAATTTA	150
	CATCTCCCAA AATGCCTAGC ATTCTTC	177

	(2) INFORMATION FOR SEQ ID :837:	
5	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 135 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :837:	
	CCGTTGCACT TGGTGTTGGC ATTCTGCAGG GCGGCACTCT CCCACTCTTC	50
15	CCGGCCTCGA GCCAACCTGA CGGCAGCCAG ATGGCAGTCG TAGTGCACAA	100
	TGTTGAAGTG GGACACGGTG CTGTAGCCCT GCTGT	135
20	(2) INFORMATION FOR SEQ ID :838:  (i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 201 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :838:	
	TCAGTGGAGG AATTAAAACT GGTGGAGAAG GGGAGGTCAG GTTATCAGTT	50
	GAAATGCCAA GGTTATCTCT AATCTTAGCT AGATTCTGCC AAAGTTCACA	100
35	GAGGTAATCA AAAACTCGAG CATGTATTTC AGGATCCATG ATTGAATTTA	150
	CATCTCCCAA AACGCCTAGC ATTCTTCGCC ACATTACAGT AGCAACATCA	200
40	G (2) INFORMATION FOR SEQ ID :839:	201
	(-,	

	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 181 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :839:	
10		
	TTCTTTGGAG TACATCCTTA CTTTCTGCAC AACAGATGAG AGATGTTCCA	50
		•
	GAACTTATAC TGTATCATAT ATTTTACCTC CCCCCCTATA CACCCTGAGA	100
15	TATACATATA CACTATCTCC GCTAGAGAGA TGTCTATGAC ATATCACTTT	150
	CTGAGATGTA CACGAACGAG ATCTTTTGAG A	181
	(2) INFORMATION FOR SEQ ID :840:	
20		
	(i) SEQUENCE CHARACTERISTICS:	
	(F: LENGTH: 222 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	·	
	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :840:	
30		
	CATACAAATG ATTAGAAAGC AATACAGCCT TATTGCTGAT ATGGAGAAGG	50
	TTTTAGTGAA CATTCAGAGG AGTTTGGAAG AAAGTCGCTG CACAATCTTC	100
35	ATGGATGACT TTGAGGGATT CAAGACTTCA GTGGAAGAAC TAACTGCATA	150
	TGTGAGTAGA AATGGCAGGA GAACTAGAGT TCGAAGTAGG AGCTGGAAGA	200
	TARTARCATG GGTTTAAAAA AC	222
40		
	(2) INFORMATION FOR SEQ ID :841:	

423

(A) LENGTH: 293 base pairs

(i) SEQUENCE CHARACTERISTICS:

	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :841:	
10		
	CGCTCAGCTG GTCTATCCTG CTCTTCCTCT TGTCCTTGCT CTTGCTGCGG	50
	CTCCTATCTA CCGGCTACCT GCTGCCCGCT TTGCTCCTGC TACCGGCTCC	100
	CICCIAICIA COGGERACCI GEIGECEGEI IIGEICEIGE IACCGGEICE	100
15	GACTCTGGCG GAGGCTCTTC TCCTGGCTCC TGCCCCTGCT CACAACTCCC	150
	TOGOTTOTOC TOOTCOACTO TOOTCTCCCG ACTOCTGCTC CGACTTTTGC	200
	·	
	TCTTACTTT ATGCCTGCTA GGACTCCGGC TCTTGGGTTT CCCGAACATT	250
20		
	GTCATTGTTT TGGAACTTCT CCTTCAGCTT GGTCTTTTGC CGG	293
	(2) INFORMATION FOR SEQ ID :842:	•
	•	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 239 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
30		
	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :842:	
35	ATGAGGAGGT GAGGAAAAGG AGAAGTGCAG CTACCATCGA GTGATTCTTC	50
	TGGGATAGGT GTCTCATTTA AATCTCATAA TCATCTTTTT TGGCAGGTCA	100
	GTCAACTTCA GGCTCACAGA TGACAGACAG TTGGCCCAAA GACACACAGG	150
40		
	AAATACATAA GTGACAACGG AATACAAGTC CATGAATTAA AAAACCATGC	200

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	TTTTCTCTCC TTGCCACACA GCTTTAGTTT GAAAAAAAA	239
	(2) INFORMATION FOR SEQ ID :843:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 154 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :843:	
15	TTCCGAATTA TTGAATCTTC TTCTGTAACA TCACAATCTT CCTGGTTTTC	50
	AGAATAAACG CTCTTCTCGC TCGCCTCTCT CTGCACTCAC TCCCACCTCA	100
20	CTCACTCACT CTATAATAAA ATGTTTGCAC TCAATTTATA TAGTAGTGTT	150
	TGTC	154
	(2) INFORMATION FOR SEQ ID :844:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 392 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :844:	
35	GTCTTTAATT GAGAAAGCTG GAGTGGAGAC CCGATCCCCT GGGAGCAGTG	50
	CCAGGAGTTG GGTGGAGACT GAGTGGGGTT TGTGTGGGTG AGGGGGCATC	100
40	TACTCCTCTT GCAACAAGCC AGAAGTAGAA CAGCCTAAGG AAAAGTGACC	150
40	TGCCTTGGAG CCTTAGTCCC TCCCTTAGGG CCCCCTCAGC CTACCCTATC	200

425

	CAAGTCTGAG GCTATGGAAG TCTCCCTCCT AGTTCACTAG CAGGTTCCCC	250
	ATCTTTTCCA GGCTGCCCCT AGCACTCCAC GTTTTTCTGA AAAAATCTAG	300
5	ACAGGCCCTT TTTGGGTACC TAAAACCCAG CTGAGGTTGT GAGCTGTAAG	350
	GTAAAGCAAG TTCTATCCAA TTAGAAGCTG TTGGGGGCGT AT	392
	(2) INFORMATION FOR SEQ ID :845:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 200 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(will applied appendigation, and to safe.	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :845:	
20	CAAAGAATAA ATAATTTTTC TATTCCTGAA AGTTAACTAA TTATTTATTA	50
	GAAAGTCAGA AATATGTGGA AAGCAAAGGA ATATTTGAGA AAGTGATATG	100
25	AAATTAATAA GTGGTAAAAA ATTAATAAAA TTAATATTAG AGTTTCCTTT	150
	GAGCTAATCC TTTATTTATT TATTTTTTC CTTGAGACAA TGTCTTGCCA	200
	(2) INFORMATION FOR SEQ ID :846:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 311 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35 .	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :846:	
40		

TTAAAAATAC TCTGGAAAGA GCACTTCCAT CGTTCATTTA CATCATATTA

.426

	GAAATGGATT TCCGAGTCAG CACTGGCTTC CTCCAGAATA GCAGTCCTGG	100
•	AGGAGCGAGA TCTCCCCAAG CCTCCAGGAT TGCAGTCTGT TTTGTGCCTT	150
5	CACTCCCTAA TAGGTTTGCC TTATTTAAAG GACCCACCTT CAGAGCTGCC	200
	AAGGACTITC TCAGAGCAGC TCCTTGGTCC CTCCGACAGC CTGGGATGGC	. 250
10	ATTTATTCTG GGGCCTGGGT GTGGGGAGGT CCTCACCAGC CTAGGAGTAA	300
10	GAGGAGGTGG T	311
	(2) INFORMATION FOR SEQ ID :847:	
<b>15</b> 20	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 287 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :847:	
25	CAGATCAAGA CTGGTGCCCC TTGCCGATCT GAGCGCTTGG CCAAGTACAA	50
	CTCAGCTCCT CAGAATTGAA GAGGAGCTGG GCAGCAAGGC TAAGTTTGCC	100
30	GGCAGGAACT TCAGAAACCC CTTGGCCGGG TAAGCTGTGG GCAGGCAAGC	150
50	CCTTCGGTCA CCTGTTGGCT ACACAGACCC CTCCCCTCGT GTCAGCTCAG	200
	GCAGCTCGAG GCCCCGACC AACACTTGCA GGGGTCCCTG CTAGTTAGCG	250
35	CCCCACCGCC GTGGAGTTCG TACCGCTTCC TTAGTCT	287
	(2) INFORMATION FOR SEQ ID :848:	
	(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 263 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

427

## (D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :848:	·
	GATTACAGGT GTGAGCCACC GTGCCTGGCC TATTAATATG CTCTTAAAAC	5
10	TCATCCATAC GTTTTCATAG CAAGAAAGCT TATTTCTCCC AACTACCGAA	100
10	TAATATTCTA TCGTATGGCC GCACCTCTGT TTATCCATTT ACCTATCGAG	150
	AGGCATCTTG ATTACTTCTA GCTTTGGATT ATTACAAATA AAACTATACA	20
15	AACACGCAAA CAGAGTTTCT CGTGTGAATA TAAACCCGCA AACCGGCTGG	250
	AGGCATATNA CCA	263
20	(2) INFORMATION FOR SEQ ID :849:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 279 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :849:	
30	TTGTCAGTCA GAATAGGATG TAAAAGACTA TTTCAAAGAG TTAAATTATT	50
	TGTTAATATC AGAGATCAGC CACAGACAAG AAGTTTATGG ATGAGTGCAG	100
35	CAGTGGTCCA TTGGACATGT TAAATACTCG TGGATATCCA CAATTCGAAT	150
	TGACATTAAA AACGAATGGA TACCCAACTC TGAATTCCAT ATCGTTTTTT	200
40	ANTATCANAN ACACAATTTT AACTACTGAT ANACCAGGCA ACCACCGCAN	250
	GTTTATCGAA ATCCTGCCGC TACTAAACA	279

	(2) INFORMATION FOR SEQ ID :850:	,
5	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 173 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :850:	
	GCTGAAAGTT GAAGTGGAGA GCTTGAAACG AGAACTCCAG GACAAGAAAC	50
15	AGCATCTGGA TAAAACATGG GCTGATGTGG AGAATCTAAA CAGTCAGAAT	100
	GAAGCTGAGC TCCGACGCCA GTTCGAGGAG CGACAGCAGG AGACGGAGCA	150
	TGTTTATGAG CTCTCGACAG AAT	173
20	(2) INFORMATION FOR SEQ ID :851:	
25	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 240 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :851:	
	TCGAGAAAGT TTCAATGTGA TTAGATTAAA ATTAAAAGAA TCCATAAAAA	50
35	TGGAACAAAG AAGAAGAGGA ATGAAATTAC TTTTACTTTA AACAGCATTG	100
	TTATCACATA AAACACGTAT CTTACAAATT CATGGGATAG CCCATAAATG	150
40	GGACTACAGC AACAATGGTA GGAGAGTCCA TCCTTCTTCA AAAGCAACCC	200
40	AGCAGGAATT TTCTGTTAAA AATATTTTTG CCGTAATACT	240

	(2) INFORMATION FOR SEQ 15 .552.	
5	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 314 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li></ul>	
	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :852:	
	ACTGGACTGG TCAAGAACAA AGCTCATGGC AATAGTCTTT TGGAATGTTA	50
15	AAGGAATTTT TCTAGTTGGC TTTCTGGAGG GCCAAAGAAC AACAACATCT	100
	GCTTATTATG AAAGTGTTTT GAGAAAGCCA AAGCTTTAGC AGAAAAACAC	200
20	CTGGGAAAGC TTCATTAGAG AGTCCTTCCC CATCACAACG CTTCTGCTTA  TTCCTCTTAT AAAACAAGGG CAATTTTGTG AGAGCTACTG ACGATTTTCC	250
	CCTCGAAATT TACTATTTCT ACAGCTTATT AATCTCAAAT AGTAAGCATG	300
25	TCCTTGCCGT CACT	314
	(2) INFORMATION FOR SEQ ID :853:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 267 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :853:	
40	TCCTGAAATA CTCTCTACTG TCACTGCTTC AGTTTAATTT ATAGATAGCA	50
-	CCAGATATGA GTCCTTATTA GTTCTGATAA CTCTGAAATG GTTATTTGGT	100

430

	ATTTCTTCAG TGACAAGCAA ACTATCCCCC CACATGCCTT TAATGGCCAG	150
	TGTTTTCGAT TTGTATACCA ATAAGCAATC TAGGTAGAGG TAATCATATA	200
		200
5	CTGATACGCT AACCTTTGAA ACATAATTTC CAATCTAGTA AGCTAAAATC	250
	GCGCCAATAC TGCTTAA	267
	(2) THEODHARTON BOD CEO TD AREA.	
10	(2) INFORMATION FOR SEQ ID :854:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 186 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :854:	
20	(32) 5225352 55561111500 522 55 1661	
	GCAGTGGATC TTTCTTTTT TCCAAAGGAA ATTTCATATA GAGTCCATTC	50
	ATAGGAAACA GATAAAATGT GAACGGCTGC AACTGAGATG GGGGAGAGTG	100
25	GCTTGGAGCC CCCAGCCTCT TTGCTTTCTC TTATCCCTAT AGGATGGCCA	150
23	GOITGGAGGE COCAGGGGG TIGGTITGTO TIATCCOTAL AGGATGGGCA	150
	TTAGGTGAAG CAGTTTAGCT TGTTGGTTCA GACCTG	186
	(2) INFORMATION FOR SEQ ID :855:	
30		
	(i) SEQUENCE CHARACTERISTICS:	
	<ul><li>(A) LENGTH: 162 base pairs</li><li>(B) TYPE: nucleic acid</li></ul>	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID :855:	

ATTTTGAAAA GAAACCTACA AAAATTGTAT TTCCATATTT CATAGTCAGC

431

	CAAAAATATT GGTCAACTCA TGCTCTCTGC AAGGTTCTGC AAAAATTGCG	100
	GAGTGGTATA GACAAGGCAC CATTGCAATA TATAATACTT TTTGGGTATT	150
5	GGCCCAAAA TT	162
	(2) INFORMATION FOR SEQ ID :856:	ż
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 286 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
15	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :856:	
	TCTGTGGCCA CAGATGCATA TTACAAGCCC ATCCAGAGCC ATTATGAAGA	50
20		
	GAAAGTGGCA ATTTTATTCT CAGCCTGAGA AATCCACACC AATCTAGTCT	100
	GGGTTTCCAA GGATCTGCCG TTTAAGTCAC TTAGCCTCTA TCCTTTCCGG	150
25		200
25	GAACAACCTG CCCCTAGAGA GGGTGAACGA GAATCGTCCC CAGTGCCTCC	200
	AACATAACAA ACCCAATCGC CCTGTTAACT TTAAATCTTC AACTCGAGAA	250
	ANCAIMACAA ACCCANICGC CCIGIIAACI IIAAAICIIC AACIGGAGAA	250
	AAAGGCTCAT GACTACTTCT AACCATGCCC AAACCC	286
30	ANAGOTERI GACIACITEI ANCONIGOCO ANACCO	200
30	(2) INFORMATION FOR SEQ ID :857:	
	(2) Intoldantion for pag 15 look	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 280 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

.. 40

(xi) SEQUENCE DESCRIPTION: SEQ ID :857:

	AACTATATGG TATTATTTCA CGCTGTACCC AGTCCATTGC TTGAACTTAC	5(
	GGGTACCTAA TGAAACGTGG AGGTCCGGAT GTATGAAAAT CTCCTCTTTT	100
5	CCCCTTTACT TACAGCCTCT GTAGGCAATA ATTATAGAGT AGTATAGATG	150
	ATTTTTCTTT TTTATAAATC TGCCTATCTC CAGGAGGATG GGGCGCGCAC	200
10	TTTTAGAAAT GCATATAAAT GCTCTACGCT CCTTTTTTCT GTTACTTAAT	250
10	CGGCGCCAAG GCCTTTACAT GAATACTCAG	280
	(2) INFORMATION FOR SEQ ID :858:	
20	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 310 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :858:	
25	CACTGGTTTT CATGACTGAT TTCTTTATTT TTAGTAGTTC TGACATGTTG	50
	GCCAGGCTGG TCTTGAACTC CCAGCCAACC TCAAAGTGCT GGGATTACAG	100
30	CTGTGAGCAC CAGCCCAACC TCGCCTCTTT AAAAAGAAAA AACACAAGTC	150
	CACTCTGAAG TCAGCCTCTG TAACCTCCCC ACAAGAAAAC CGTTTTACAT	200
	CAGTCACTAA CCAAACAACC AACAGTGCTT CAACACAGAA AGTAAAGCAT	250
35	TATACAGGGC TTGAACTGTC TTTTAAGCAA GCCCCAAATC CTTTGAAAGG	300
	AGGCAGTAAC	310

(2) INFORMATION FOR SEQ ID :859:

. 40

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 158 base pairs

433
(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
•		
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :859:	
	TCTGTGTGGA GGGGAGGGAC CCAGTCTGGA CCCAGGTGTC ATCATCTCAG	50
10	0010100100 0000000010 0000000110 0000000	10
	CCACAGCAGG GCCCTCTCAG GCTGGGAAAC TTCTGCCAGA GCTGGCGAGT	100
•	CCTCTGCAGG TCAAGCCAGG GCTTGGACAC AACTACTTCA TCTATCGCGC	150
	objection remines and the second seco	150
15	AGGAAGAG	158
		250
	(2) INFORMATION FOR SEQ ID :860:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 263 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :860:	
	(XI) SEQUENCE DESCRIPTION: SEQ ID :880:	
	TTTCTAATAA GAACATAAAA TAAAGGCTAA TTAAAAGAAG GTGACTGAGT	50
30	- um 1	
	CCAGGAAGGC ACTAATCAAA GATGATATAC AGCCAGGTAA AAAAGAACAA	100
	TTCACAGGCA CAAGACTATA TAACCATCGT TTTATTTTCA AACGTTATAC	150
35	AAAATATACT CTACCGAACT ATAATAGATC ATTAATAGTG GCACAATCTT	200
	TAGATTCGGA ATAACTTGAA AATAAATCCC AACCACGTAA CTTACTAAAG	250
	CARMAR MORO COR	
40	GAATAATGAG CCA	263
40	(2) INFORMATION FOR SEQ ID :861:	
	(T) THIOMHITON FOR ODE IN 1901;	

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(i) SEQUENCE CHARACTERISTICS:

	(A) LENGTH: 254 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :861:	
10	(XI) SEQUENCE DESCRIPTION. SEQ ID :SSI:	
	ATTTGTCTGA AAAATATATT TCTACACGAT CTGATAAAGT TCAGATAAGG	50
		50
	GGCATTCTAT TCCTAAGAAT GTCCTAAAAA TGGAAAACTG ATAAAAGATT	100
15	ATGCTTAGAA TTATACAGGT AAAAGACCTA CAACAATTGT TCTCTTGTTT	150
	TGATCCCATA GGTCATTTGT TATTACTCTT CTTCAACAGA GTGATTTTCT	200
20	ATTATAAACT TTCTTAGGAG CCAATACAGA GTAGAAAGAA ATATTTTCAG	250
20	AAAG	054
	AAAA	254
	(2) INFORMATION FOR SEQ ID :862:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 3 base pairs	
	(B) TYPE: nuc _c acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(with CECHENOR PROGRAMMON, CRO. TR. CCC.	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :862:	
35	GTTCCTCCTT TGTAAATTAT GAAATATTTA TAGTTTAGAC TGAGTAATAT	50
	The state of the s	30
	GACATGAAAC AACAAACCTG CACATTTCTA ATTTATAACA AATCCGTTTC	100
	CTTAATGGGT GGAAGGAAAT CTGAGGACAA TTCTAAGGAG TCTTGTCTGC	150
40	·	
	TTTCAGTGCG ATCTTCTAGT CATACTGAAG ACAATACCTC TCCAGATTGA	200

	TCTTTCCCCT TCTTATACTC TTCCCGATCA ACGTCAATCA CACGCACCAC	250
	TCCAGGTTTT AGACTTAGGT CATCCGTCTC TACCTGACTT CTGTTGCCCT	300
5	TCACCTACAC GTGGCTCGCT TTAGTTTGCT GAGCAGC	337
	(2) INFORMATION FOR SEQ ID :863:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 169 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :863:	
20	TGGTGGGTTC GAGCCCAACT TCAGCGCTCT TCGAGAAGTG CGAGGCGAAC	50
	GGTGCGGGG CGCCTCTCCT CTCCACCTTC CTGCGGGAGG CCCTGCAAGC	100
	TCTCAGCGAC GACGCCACCA TCTTCTGACC AACTTCAGGC TACTACCCCA	150
25	ACTTACAATG CCACCGCGA	169
	(2) INFORMATION FOR SEQ ID :864:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 286 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :864:	
40	ATTAAGGTAA AGGAAGACTT TCCATTGTTA AGTAGAAAGA GTGTCCTGCT	50
40		100

•		
	CCCTGTTAÀN NACANAGGAN AGNANTGGGC TGNATGGCGC ACCAGCTATG	150
	CGGATAGCAT TATCTTCCTG TGTTCCAGAC TGGAATGAAT TTATGAACAA	200
	· · · · · · · · · · · · · · · · · · ·	200
5	GGCAAGCACA CCATTATAGT AAATAAAATC TTACCTAGTT TTCGTTTTTG	250
	CATTTCTTAC TTCGCAGTAT TTCTCCCGCC AAGAGC	286
	(2) INFORMATION FOR SEQ ID :865:	
10	(2) INFORMATION FOR BEG ID . 303.	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 272 base pairs	
	(B) TYPE: `nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :865:	
20	(11) 55255155 555512111511 552 15 1555	
	ATATAGTCCG CTAGGGATAG TGAAAAATTT GGGGCTTGGT TTAGATTGGA	50
	·	
	GAGGTATATG GTGGGGTGTC TTATAAGGCT TAACTTTGGG AGGGCCCAGG	100
25	GCCTTGATTT CTGTCCCCCT TGCCTTGCGT GGCCTTTGAA TTGAAAGCTT	150
	TGAATTAGGC CTTCATAGAT TTTAGTGTGC ATACAAATAA CACGATCTTT	200
		200
	TTATAAGGCA GATTATGATT CTGAAGGTTT AGTGTGGGAC CCAAGCTTTC	250
30		
	GCATTTCTGA TCTATAAGGT GA	272
	(2) INFORMATION FOR SEQ ID :866:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 296 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•

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	(xi) SEQUENCE DESCRIPTION: SEQ ID :866:	
	ATGCAGGAGA AGAAGGATGC CAAACTAAGT CAAAAAAACG GAACGCAAAT	50
5 ·	AAAAGGAATG AGCACGGTTA CAAAGTCACA GGATGAGTCC CTGGGATCTG	100
	GGGCGGGAGA AGGGGTGAAT CAAGAATGAC TTGAGCTTGT TACTCCCTAG	150
10	CAGGCTGAGG GCGTGACACA GCAGCTCGAT GACAAAGAGG TCTATTATAG	200
10	TTTCTAACAC TACAACGCTA ACTTTTGGAA CGTATCTACT TCTAGCATGT	250
	AGACAGATCT CTAATCGCCT GCCAGACGGT AAGCCGCAGG AATGCG	296
15	(2) INFORMATION FOR SEQ ID :867:	
20	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 241 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :867:	
	TATTTTATCT CAACATAATA AAAACGACTA TAAATCTTCC TAAGAGAATG	50
30	CTCTACTCCC AAGACTAATT TAAACTCGGG GATCGTCAGA GGGAGTGCCA	100
	CTGTGACTTC TACGATGAAA GAACAAGGGA GAGAAGATCT TATCGACAAT	150
	CATACAAAGC CATATATACG CTATTCCTCA ACTCACAGAG TTAATTAAAT	200
35	GTCACCAGGA TGGAAGAAAC CTTATAAGCC CCTATCTATC A	241
	(2) INFORMATION FOR SEQ ID :868:	
40	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 130 base pairs	

438

(D) TOPOLOGY: linear

. 5	(xi) SEQUENCE DESCRIPTION: SEQ ID :868:	
	GGACGACTGC AAGCTGGAAC TACACACGCG CACTCGCTCA CACTACACAC	50
10	ACGCCACTCT CACACACTCT CACACACGCA CCCTCTCGCG CATGCTCTCT	100
10	CAAAGCCCAA TATAACCAAG GGGAAGGAAT	130
	(2) INFORMATION FOR SEQ ID :869:	
15	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 310 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	
20	( <b>5</b> )	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :869:	
25	TTCAAATATT TATGTATGTT TGAACATTTT CATAATAAAA TGTTGAAAAA	50
	CTAATGAGAA TGGCATAAAC AACATTTAAG CAATATATTT TGAAATTTAA	100
30	TTCAAATGGT CAAATTCCTG GAAAACACAA ACTCCCTTCA CTAACAGAAT	150
	TGATAGAAAA TCTGAGTAGT TCACCATTGT TAAAGAAATG GAATGTGCCA	200
	TTTAAAACCC TCCAATTGAA AATACTACAT ATAGTTACAA TAGGGAATTT	250
35	TCCCAAGCAC TTAAACAATA AACAATGCCC TCTTTATACA AACCTTTCCC	300
	AGTAATAGAA	310
40	(2) INFORMATION FOR SEQ ID :870:	

(i) SEQUENCÉ CHARACTERISTICS:

(A) LENGTH: 192 base pairs

439

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double .	
	(D) TOPOLOGY: linear	
5 `		
	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :870:	
	AND THE STATE OF T	-
10	AAAGAGGCAA GTTCCTGGTG CAAAGGTGGC TCTGCAGCAT AATTTAGGCA	50
10	TTGGAGGAGC TGTGTGTTGT AACACTCTAC AAGATGGGTT TTCCGGAAGC	100
	1100000000 1010101101 midnight midnight	10.
	CGCCAGTTCT TTTAGAACTC ATCAAATTGA AGCTGTTCCA ACCAGCTCTG	150
15	CAAGTGATGG ATTTAAGGCA AATCTTGTTT TTAAGGAGAT TG	192
	(2) INFORMATION FOR SEQ ID :871:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 250 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :871:	
	(112) 112-1111 112-1111 112-1111	
	ACCATAGATG TGTTCCAGAG GCAAAAGAGA CACATTATCC TAGATGGCAG	50
30		
	AACATGCTTT CAAAACATAT AAAACGTCAA AGTTCCAGAT CTTTCTACAT	100
	TTTANATCCT GTCTGAGGAT GGCAGCTGAC TTTATGTAGC TGATAGACGA	150
35	CTAGAGTTTC ATCCAAATAC CTGACCACGA CTTCATGGAG ATTTGAATAA	200
	more models also demands assessed and assessed assessed	
	TCTATCCGAT GAGATTTATA TNTAAACAAC TCAACTCCTG TCGAAACAAA	250
	(2) INFORMATION FOR SEQ ID :872:	
	(%) THE OWNERTON FOR SEA ID 10151	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 313 base pairs

440
(B) TYPE: nucleic acid

(C) STRANDEDNESS: double (D) TOPOLOGY: linear 5 (xi) SEQUENCE DESCRIPTION: SEQ ID :872: TCAGCTACGA ATTGCTTCCT TCTCACAGAA CTGTGACATT TATCCAGGGA 50 10 AGGATTTTGT ACAACCACCT ACCAAGATTT GCGTGGGCTG CCCCAGAGAT 100 ATACCCACCA ACAGCCCAGA GCTGGAGGAG ACACTGACTC ACACCATCAC 150 15 AAAGCTTAAT GCAGAGAATA ACGCAACTTT CTATTTCAAG ATTGACAATG 200 TGAAAAAGC AAGAGTACAG GTGGTGGCTG GCAAGAAATA TTTTATTGAC 250 TTCGTGGCCA GGGAAACACA TGTTCCAAGG AAAGTAATGA AGAGTTGACC 300 20 GAAAGCTGTG AGA 313 (2) INFORMATION FOR SEQ ID :873: 25 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 270 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 30 (xi) SEQUENCE DESCRIPTION: SEQ ID :873: 35 TAGATGCTGA TGGCAATGAC ACAATTGACT TCCCTGAATT CCTGACAATG 50 ATGGTAAGAA AAATGAAAGA CACAGACAAT GAAGAAGAAA TTAGAGAAGC 100 ATTCCGTGCG TTCGATAAGG ATGACAATGA CTATATTAAC GCTGCAGAAC 150 40 TTAACCATAC AATGACAAAC CCCGAAGAGA AGTTAATAAA TGAAGAAGTT 200

	GATGAAATGA TCAAAAACGT AGATNATTGA TGACGATGGT AAGGTAAACT	250
	ATCCAGCGTT AGCACAAATG	270
. 5	(2) INFORMATION FOR SEQ ID :874:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 229 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	·	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :874:	
	TTGGGCCATG TCCCCATTTT ATCTCCAAAG CCAGCCATGG TGTATTTCTC	50
20	TCTGCTTTC TTCCATATTT CCAACCCAGA AATGACTCCT GTTCCCATAT	100
20	GTGATTATTA TATTGCGCTA ACCCAAGTGA TTAAGGATAA TCTCACTACT	150
	TAATGACAGC TGATTATTTC CATCTGCAAA CTTACTCAAG AATGCAATCC	200
25	AGACTAACAC GACAATAGGA CATCAAGCT	229
	(2) INFORMATION FOR SEQ ID :875:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 294 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :875:	
40	TTTGAACTTT CAGCCGAATA CATCTTTTTC CAAAGGAGTG AATTCAGGCC	50
70	CTTGTATCAC TGGCAGCAGC ACGTGACCAT GGAGAACCTC TTCTTTTOT	

	442	
	TGGTCTTGÄC CAGCCTCTCT CATGCTTTTG GCCAGACAGA CATGTCGAGG	150
	AAGGCTTTTG TGTTTCCCAA AGAGTCGGAT ACTTCCTATG TATCCCTCAA	200
.5	AGCACCETTA ACGAAGCCTC TCAAAGCCTT CACTGTGTGC CTCCACTTCT	250
	ACACGGAACT GTCCTCGACC CGTGGGTAAC AGTATTTTCT GCGT	294
	(2) INFORMATION FOR SEQ ID :876:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 173 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :876:	
20	ATTTTTGGTA ACATACATCA AGTGGCACTA ATTACACAGT AACTATAAGG	50
	TAACTAACAT GAAACCACAG AACTGTAACT CTGCCACAGC TGCATGAACT	100
25	CGGGTTGTCC TGACCGAGCC CATCCCCAAA AAACCGCCCA CCCCAGAGCT	150
	ACGCCAACAA AAACCGTTAT TAA	173
30	(2) INFORMATION FOR SEQ ID :877:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 143 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :877:	
40		

TAATCAAAAG AGCTCTAAAT CTGTAATTTC TTTCTCCTTT AAAAAAATGT

	CTACTTTGTT TTGGTCCTAG GCATTAGGTA ATATAACTGA TAATATACTG	100
	AAACATATAA CGGAAGATGC AGATGATAAA ACTAATTTCG AAC	143
.5	(2) INFORMATION FOR SEQ ID :878:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 213 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :878:	
	ACTGAATAAA CTGCTGATGT CCAGGTTCAG TGGTTCCTGC TGTGGGACTT	50
•	GCGTTTTCAC TAAGTGTGGC GTTAGATCCA TTAGTTCCCG AAGAGCCTCC	100
20	AGTGCTTCCT AATGCCCCCA AGCCAGGAGT AAACCCTGGA ATGAGGCCCA	150
	GGGCTTCTAT TGCTAATGCC TGTAAACCTT GCTGAATCTA TAACAGAGTC	200
25	TATACCGCTC TCG	213
	(2) INFORMATION FOR SEQ ID :879:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 227 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :879:	
40	AAAGAAGGAA AAGAAAGAAA TAACACTTAA CAGTCCATAA CAAAGTGTTA	50
40	ACGAGATAGA CACATGCTTA TTCAAACCAC AGATATGATC CAGTTAATTC	100

50

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444

	CCTTCTTAGA ATGTGCCCAT AGTGCCTTAT TGCCTCATAA TAATGATAAT	150
	AATAAGAGCA ACAATAATAA CGGCACAAAC TCCAGTCGAT ACTGACAAAC	200
5	TACCAGAGTA ACCGTCATCC CCTTGAG	227
	(2) INFORMATION FOR SEQ ID :880:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 221 base pairs	
•	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :880:	
		F.0
20	ATAGACAAAG TCCTTCCCAC TAGAACTTAC ATTCCAGTGG GAAGAATTAG	50
	AAGUCTCAGG AATTCCATTG CTTACTTTTA GTTGTTACTT CAAAAGTACT	100
	TACATTTAAT CTGATTATTA ATTATTCGTC ATGAGCTTCA TTTTATTACA	150
25	TCCAGGGCAC AGTATGTGAA TTGTGTTTCG TTCCTTTAGG AAAAGGAAAA	200
	ATAATCACTC TTTACAAGGT A	221
	(2) INFORMATION FOR SEQ ID :881:	
30		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 310 base pairs	
	(B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :881:	

ARTTGTGGTA TATTTCATTT AAAATCGATC AAAGACAGCA ACATACATTA

	ATCAGAGGAA AGCATCAATT AAATGCAGAA ACAAGATTTA AACAAAGATT	100
	CATATTAAAA CAATGATAAG TAATACTTAG AAACTGCATC CTAGAGACAC	150
5	ATCATTCGCA TTTTTAGAAA AACAGAAACA TATTAGTGTG AAAAGATGTT	200
	AAAAAATGAA TATTAAACCG TCGAGCACAA CACACTACGC CGATAACAAT	250
10	ACACCACAAG CGCCGTAATC CTGCCGACAC TGACACACTA CAGGCGTCGT	300
10	GGCGATCCGA	310
	(2) INFORMATION FOR SEQ ID :882:	
15	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 177 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li></ul>	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :882:	
25	GTTCACATCA GTGTGTAGGA TATGCTATCA CGTATGTGCA TGAGAAGAAT	50
	GGAGAAAATG GATCTATGCG GATGTCTGTA CACACACACA CACACACATA	100
30	CACAACAAGC TTGCACATGT ATAGAGGATC CGAAATTCCA CCAATACTGA	150
	CGAACTACAA ACGTAACAGC AGCAGGC	177
	(2) INFORMATION FOR SEQ ID :883:	
35	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 152 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	
40	·	

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•	(xi) SEQUENCE DESCRIPTION: SEQ ID :883:	
	CAATTCTATT TTCAGAGTTG ACTGTACTCT TTTCCTCTGA AGATACACGT	50
5	ATAAACGCGA CCAACGAGGT CTCTCGTCCT AATAACAGGT TCAGGCATGA	100
	ATCACCGTCT AACAGCTATT TAAACACCGC CTCTTCATAG AAGTAACGCC	150
10	GA	152
10	(2) INFORMATION FOR SEQ ID :884:	
	(i) SEQUENCE CHARACTERISTICS:	;
	(A) LENGTH: 177 base pairs	
15	(B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :884:	
	CCATAATATA AGTATTTATC ATGTATTCTG TGTCTGGAAT ACAATTCAAT	50
25	GACCTATTTC AGAAAAATCT TTTCAAGTAC TGGCTGAAAG AGTGAGGGAT	100
	ACATTAGGAG ACTGCAAATA AACTGGCAAT CACAAGAACT TTTTCGGATA	150
30	AAATGAAATT GTGCCGAAAT GTATACA	177
30	(2) INFORMATION FOR SEQ ID :885:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 241 base pairs	
35	(B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :885:

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	CACAGCTGGA AGAGCGGAGA AATAGAA	TTG TCTTCAAACA	TAAAAAAT	50
	TCATAAAGAA TAGAAAGACT ACTATGT	GTG GGTCGGGAAA	TTAACTAGAA	100
. 5	TTTTTTTATA TCCACACTCT AGTATGA	AAT GAGTACTTAT	AGAGTAGAGT	150
	GTAACATATT TAGACATAGT ATATATA	TAT ACAAGTGTAA	CAAATATATA	200
10	TATTAAATAT ATATATGTTT TATAGAA	ACA CAGAGCACAC	A	241
10	(2) INFORMATION FOR SEQ ID :8	86: ·		
	(i) SEQUENCE CHARACTERIS	TICS:	•	
•	(A) LENGTH: 190 bas	e pairs		
15	(B) TYPE: nucleic a	cid		
	(C) STRANDEDNESS: d	ouble		
	(D) TOPOLOGY: linea	r		
			•	
			•	
20				
	(xi) SEQUENCE DESCRIPTIO	N: SEQ ID :886	•	
	GTAGCAACCG GCGCTCAATA AAATTCA	ACC AGCAAACTCG	ACAAGTAACA	50
25	ACCATAAAAC CAGCCACACT AAGTCCA	GCC ACCACTACTC	ATAAAATAA	100
	ACACGTATCT TCCACCGTAC AACCAAT	AGC AACTGCAGGC	TACTGCAACG	150
30	CCATCCATAT ACCAAAAATG CTACTTA	CAA CACCACAACA		190
30	(2) INFORMATION FOR SEQ ID :8	37:		
	(i) SEQUENCE CHARACTERIS	rics:		
	(A) LENGTH: 168 base	e pairs		
35	(B) TYPE: nucleic a	cid		
	(C) STRANDEDNESS: do	ouble		
	(D) TOPOLOGY: linear	•		

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :887:

448

	CACGCTTTCT CTCACACAGC ACTAGCGCTC TCTCACTATC ACTCTTCTCA	50
	CAGAGCTGCG CGCGAGTCTC ACTACTATCA AATATATCTG TCTCTTCTCA	100
5	CTCTATAGCT CTCTCACAGA TATATATCTA CATATAGCGC TCTCATTATA	150
	CTATAATATT ATACTCTC	168
	(2) INFORMATION FOR SEQ ID :888:	
10		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 174 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(2) 10.02001. 11.001	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :888:	
20	ACTGGGCGCG CTGGTGCTGA CATCTTCAAG AGCATCTGTC ACTGAATATT	50
	GCCGATCTCG CAACCGGTTC CAGTTAGACA GAACATTGTG ATATTCAAAC	100
25	CACTITCTCG TAATITCCAA TGGAGTTGTA AAGITTAATG AGACCTCGAT	150
	AATCATATTC TAGTCCACTG TAGC	174
	(2) INFORMATION FOR SEQ ID :889:	
30		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 327 base pairs	
	(B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :889:	

ACACCACACT TAAGGAATGG GAGTTATATT TCACTTCCCT GAGGCCAGAA

50

•	TATATATATG TATGTATGTA TATGTGTGTG TGTGTCTATA TATATATATA	100
	TATAGACACA CACGCACATT ATACACACAT ATATATACAC ACACATATAT	150
5	ATATGTGTGT GTACAATATA TAAAAAATTA TATGGGAGAA AAGAAAGGCA	200
	AATCTCCCAT GGCAGAGAG TATCCCAAAA AATTTTTTTG TGTGTAACAA	250
	AATATGTTGT GTGTATATAT ATATGCACAC ATATTTATGT GTATATATGT	300
10	ATATATATA CTGTATATAC AGGTATA	327
	(2) INFORMATION FOR SEQ ID :890:	
15	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 181 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	
20	(b) TOPOLOGI. IIMeal	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :890:	
25	TTTTTTTTTT GTCTCTCCCG CAGCGCGCC CTCTCGCGGC GCTATCTCTC	50
	GCTCTCTCTC GCTCTCTCGA GCTCTCGAGA TATAGCCGAG ACACGAGAGC	100
30	TCGCTCTCTC CCGCGCGAAG ATCTCACCCC CGCGCGCTCG CGCGATATAT	150
30	ATCTCCTCGC GCGCGCCCG AGCGCGCCCC T	181
	(2) INFORMATION FOR SEQ ID :891:	
35	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 207 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
40		

	(xi) SEQUENCE DESCRIPTION: SEQ ID :891:	
	CTCTTTAATA GCAAGCGAAT GGTAATTACA TGGTCGGATG AGGTCCTCAC	50
5	TCTCAGGGGA GGGAGGGGG AGCAGAGGTG GACAGGGTGC AGTATAGGAT	100
	TTACACTGTT TGAAGCATCT AACGAAGGGC AACAGTTTTT GGCAACCCAA	150
10	TTCACAGTTT TGTAATTTAC AAGAGATTTC TTTGAAAGGA AATAGGAAGG	200
10	CAAAGAA	207
	(2) INFORMATION FOR SEQ ID :892:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 198 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :892:	
25	CTATCACTTC AGGGAAACAA ACAACTAACA GCCATCAATT CAGAGGGAAG	50
	TGATTTTACA GTAGAGTGAA CGAAACTTGG GAAGGAAAAC ATCCAAGAGG	100
30	CGTCTGTTTG ACGTGGGTAA CGTGGGGAAC GCATACTGTC TGGCAAGAAT	150
	TCTACTAGGA CCACGGGAAA CAAAGCAGAT TAAAACACTC TCTACTCT	198
	(2) INFORMATION FOR SEQ ID :893:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 96 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

	(xi) SEQUENCE DESCRIPTION: SEQ ID :893:	
	CTTTAGAGAA TGCCTTGTGG AAAAAAAAAA AAATGGGCCC CAATACTTTT	50
5	TACTGCCCTT TATCAAAATT GTTGTGCATG GACCGGGCCA AATAAG	96
	(2) INFORMATION FOR SEQ ID :894:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 325 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :894:	
	AATTGTATAC CAACATATAA ATTAAAAGTG TTATGCAATG AGAAACAATA	50
20	AATTGTATAC CAACATATAA ATTAAAAGTG TTATGCAATG AGAAACAATA	30
20	ATGGARACAG CATAATACTA CATACTATCG CGCGGGGTTG TCGGCGTGGT	100
	Albannens California California Constitution	
	GGGCGTGCGT GTAGAGAGAG AGCAAGGGCG TGTGCGTGAG TGGGCGTAAA	150
	•	
25	GAGTGAGCGT GGGAGGGTGT GGTCGGTGGA GGTGTGTGGA GAGGTGAGTG	200
	TGCGAGAGGG GCGAGTGTAT GTGTGATAAG TATAGCGCGC AAGAGGCGAG	250
	GACAAAATAT ATATATATA AGATATAATA GATATGAGAG AACACTAAAC	300
30		
	AATAACCACT ACTCACATAG AATAT	325
	(2) INFORMATION FOR SEQ ID :895:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 266 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
40		

	(xi) SEQUENCE DESCRIPTION: SEQ ID :895:	
	ATAGTTGTAC ATTTTTATGG GGTGCATGTG ATATTTTGAT ATGTGCATAC	50
5	AATGTGTAGC AATCAAATCA GGGTAATTGG GATATTCATC ACCTCAAACA	100
	TITATCATTT ATTTGTGTTG GAAACATTCA AACCTTTTCT TCTAGCTATT	150
10	TATCCATTGT TGGATACTTA TATCAATTCT ATATCTTAGC TGTTGTGAAT	200
10	AGAGCTGCAA TAAATGTAGG AGTGCAGATA TCTCTTTGAT ATACTGATTT	250
	TCTTTCTTTT GTTATA	266
15	(2) INFORMATION FOR SEQ ID :896:	
20	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 197 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :896:	
	AAGAAGAGTC TTCTGCACAA ACAAAACCAT AGTGTTGACA AATAGTCATG	50
30	GCCAATGGCA ATCTGATGGT CCAGCGGCCC TCGGATGACT CCTCTGCAAG	100
30	GAGCATCTTC AGGGTTCTAG GGAAGTCACA GGGGCAACAT ATTGGAAACT	150
	AGCAGGCCCA GAAGACCGCC CCGCCCCCCA TGCCCTGGCG CAGGGCC	197
35	(2) INFORMATION FOR SEQ ID :897:	
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 192 base pairs	
40	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOCY, linear	

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	(xi) SEQUENCE DESCRIPTION: SEQ ID :897:	
	GATGGCTGGA GTAGATTAGG GCGTAGGTAG AAGTAGAGGT TAAGGAGGGT	50
5	GATGGTGGAC TATGATGGTG GGGATGATGA GCGCTATTGT TTTTTGTGAA	100
	TATTTTTCTT CCGACTAACT CGCGCCCCAC TCTCTTGCGA GCACAAACAC	150
10	ACGCGCGCGT GTAAGCGGCG CGAGACACGC GCCCCTTCCC CT	192
	(2) INFORMATION FOR SEQ ID :898:	
	(i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 224 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	•	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :898:	
	TGGATGTTTT CATTCGCAAA TCATGAGAAA CTTAAGTGGG TTTTATGCAC	50
25	MMCAMACAON MCCCAAAANN AAAANNA AAAAAA AMAAAAA MAAAAA	100
	TIGATAGAGT TGGCAAAATT GAACTATGAA GTTAACTATT TAACTCAAGG	100
	AATGGGCGGC AAACCCATCC CCTCGATTGA TAAAGAAGGG GAACATTTTT	150
	initiation initiation contain talkiamada dalcattiti	130
30	ACATTAGAAC TGACACTGAA AACATAGCTC TTTTTCAGTC CACCCTGGTT	200
		200
	GCTCTAGTAG CCCACAGCCC AATC	224
	(2) INFORMATION FOR SEQ ID :899:	
35		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 362 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :899:	
	GAGGTGATTT CTCAGAGTTT AGAGAATAGG ATGGGGAAAA TTATATTTAG	50
5	TGAGTTATAA CCAGAATTAC ATAAGACAGA TATGGAAATT TTATAAACAA	100
	AATGCAAAAT ATTCTAATGT TTCAATGTTC TACATGAACA TATAGGGAAG	150
10	CATAGACAAT AGCCAAAAAT ATGTTCTGCA TTCATATACT AGTTCAAGTC	200
10	CGAGTCTGGC TACTTTCTAG GTAGTGTGCT TTTTGTCAAA TTATAAAGAT	250
	ATATTCCCTT TGTTTTTTGA AAACGAGTGA GATGCTTAAA TAGAGTACAA	300
15	TTATCTCATT CAAAATGTAT GTTGTTTCCT CTCGAGAATT GTGAAGGTTC	350
	TGAGATTTGA TT	362
20	(2) INFORMATION FOR SEQ ID :900:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 310 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	<del></del>	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :900:	
	GTATGTAGCC CAGTGGGTGT CTTCCCACAG GGTAGGTACT CAGTTTGCTC	50
	TGGAGGGTGA CTCATACCTA AACAAGTGCA CATCTCCTTT CTCAGTAAAG	100
35	CCAAAGCAGG TTTCTACATT TGGAACAAAA GAGATCCTGA CCAGAGAGCT	150
	ATCACTGGTG GTCCACTTGG GCCCTCCTTG ATGGGTGTGT TCACTTAGAA	200
40	AACCAAATTA CAGATCTGAA GGCTGCTGGG TAGGGACAGG ATTAGAACAA	250
	AGGGAATGAG ATTGAATGTT ATTTAAGGGA TATTTCTGTC AAGTTTTGGT	300

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	TTCTCGATGA	310
	(2) INFORMATION FOR SEQ ID :901:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 185 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :901:	
15	TTCCCCCATG AGACCGTTAG TCTCTCTTTG CCTGGCTGAC TACCTGCATA	50
	CAGTAGGCAC TCACTGCTGG AGTGAGGCAC TGACTCCTCC AAAGATTGCA	100
20	GGGGGCGGAG GAGGGAACCA CGAAGGCCTG GGAGGGGGCA TCTTTGGCCC	150
	CCACTAACCA TCTCCCTATT TCTGCATCCT GGTGA	185
	(2) INFORMATION FOR SEQ ID :902:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 381 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	• .	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :902:	
35	ACAAGCTGCA AGATCCTTCA CTTGAGGCTT TCAGCCTTAT TCTCCTCCTG	50
	TCAAACAACT AAACTACTCC GATGTTTGAT GAAAATTAAA CTGCTACTCA	100
40	GGATACTGCA ATTACAAGGA GAGGGAATGA TCAGCCCAGG GAGGCTATTA	150
40		200

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	AAGTGCAGGG AGGTGGAGCT TATTTGCATT TGAACTCCTG TAAAGAGTAA	250
	GAATATGGAA AGGATGAAGC CTCATTCATT CGGGCATATT AAAAAGAAAT	300
5	TGCCTTCAGA AACACTTTGC CTTTTAATAT GTGTAGCTAC AGTAAGTACC	350
	AATGGGCTAA CTAATTGAAG CTAACATTTT A	381
10	(2) INFORMATION FOR SEQ ID :903:	
10	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 240 base pairs  (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :903:	
	CATCAAGGGT TTTTCCTGCT GCAATTCTTG TCAAAAACTG ACATATGTAT	50
	ATCGTTCTCA ACTGGCAAGC TGTTAGACTG GATAGTCCAT GAATAATAGC	100
25	CTCTGCGCTG TTGCGGGTCC TGCGGAAGTC CTCGGAGCGG CCGTCGCGGA	150
	AAGCTCGGCA AAGAGAGAG CAGAGGAAAT CGAGCATCCA GCCGGCAGCC	200
30	ACTITITIT TATCGGCACC AGGCCGCGTC CTCCTCCTCC	240
	(2) INFORMATION FOR SEQ ID :904:	
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 280 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :904:

	CCCTGGGCAG GCTGCTGGTG GTCTACCCTC GGACCCAGAG GTTCTTTGAG	50
	TCCTTTTGGG GATCTGTCCA CTCCTGATGC TGTTATGGGC AACCCTAAGG	100
5	TGAAGGCCTC ATGGCAAGAA AGTGCTCGGT GGCCTTTAGT GATGGCCTGG	150
	CTCACCTGGA CAACCTCGAA GGGCACCTTT GCCACACTGA GTGAGCTGCA	200
10	CTGTGACAAG CTGCACGTGG ATCCTGAGAA CTTCAGGCTC CTGGGCAACG	250
10	TGCTGGTCTG TGTGCTGGCC CATCACTTTG	280
	(2) INFORMATION FOR SEQ ID :905:	
15	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 225 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :905:	
25	GTTCTAGTGG TAACTGCTGC TTCTGGAAAA TATTTAGAGA AACCAACGGT	50
	AAAAAAAAA ATAATAATTA ATACCGTTGG TTTCTACATA CACTCTCAAT	100
30	ATTTGCACGA GTAAAGCGTA GCAAGTTTAA CACAACTTAT GTAAACTTGG	150
	AAAATTTTCC GAAATTTTAT TGACTTTTCT CGGTCTCTCC TATCTTTATA	200
	TACACATCTC TCATGCACAC ACGCG	225
35	(2) INFORMATION FOR SEQ ID :906:	
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 161 base pairs  (B) TYPE: nucleic acid	
40	<ul><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :906:	
	GGTGCTGACA TCTTCAAGAG CATCTGTCAC TGAATATTGC CGATCTCGCA	50
5.	ACCGGTTCCA GTTAGACAGA ACATTGTGAT ATTCAAACAC TTTCTCGTAA	100
	TTTCCAATGG AGTTGTAAAG TTTAATGAGA CCTCGATAAT CATATTCTAG	150
10	TCCACTGTAG C	161
	(2) INFORMATION FOR SEQ ID :907:	
	(i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 204 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :907:	
	AGAGATATAT GCAATCTGGT AGTCCATTAA ATGAGAGTTA CACTTAAAAT	50
25	ATTTTAGTTC TTTTAAAGAA AAAGTCTCCA TGTGCTATTT GGGAAAACCT	100
	TCATTGCCTA AAGACCCACT TGCATAATTA AGGCAGATGA TGATGATCTT	150
30	TATATATGCG CACACACAC CACACACGAC ACGACGACAC ACACACAC	200
	TCTA	204
25	(2) INFORMATION FOR SEQ ID :908:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 316 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :908:	
	AGTTTCTGCA TTTGGTCTGT GTGACTCTAT GGAGCCCAGG ACTTACAGAA	50
5	AAAGGTGTAA CTGGCTCTTA GGACTTTAAG CCACATTATG GTAGTAGACC	100
	TGCCGTTTTA TTTGACATGG TGAAATAAAC TACCACTCCT TTGTGGTACC	150
	ATATGGGCAG GACAGAGCTC TTCAACCCTG GCTAACAAGC CTGAAGAAGA	200
10	CCCTGTGAGG CCGCAGCAGC CATGGGAACT TCCCAAAGGA CAGAAATCCA	250
	CATTGGAACG TAGCATCCAG ATAGGTGACA GAAATTCCTT CCACCATATC	300
15	CAAATGTGTG TGTTTT	316
	(2) INFORMATION FOR SEQ ID :909:	
20 25	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 307 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :909:	
30	CTAGTAACAT AGAAAATAAA CTTCAGTGGG AATCTCTGCT TCCCGCGTGA	50
30	GGTGTTTAAT TCTTGGCATT TTTGTATTTT AAAGATGTAG CAACTTGTTT	100
	CAAGTTAGAG GAGATGGCAG GGTCAAAATT TTAGAAACTG GATCCCACCA	150
35	CCACTGTGTT ACTTCCTAAA CCTGCATACA AATGTTCTGC CAACATGTAA	200
	TGTGCCAATA GAATTATACG GTGTGAACTG CATATCTCAG TATCTCCACG	250
40	GGAAAAAACT GTGGTTGGGG CATGGAGGGG GGAAAGGGAA ACTTTTTTAA	300
70	GCTATTT	307

250

460

	(2) INFORMATION FOR SEQ ID :910:	
5	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 172 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	·
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :910:	
	TTTTTTTTT TTTCCAGGCA CCTAACGATT TGTTTTGCTC AATCAAACGC	50
15	AGACAGGCGT CTCCGAAGTA CCACCACTGG GATATCCTCG GACCAGCGCT	100
	TARACCGART CCCCACARTC TCARACTCRA CCAGGCCARA GGGRACACAG	150
	TGACACAACA ACAGGGTTCC AA	172
20	(2) INFORMATION FOR SEQ ID :911:	
25	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 255 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :911:	
	GCATAGAGAG ATATATACAC AGAGAGGACA TACATATATA TATATAGAGA	50
35	CACAGAGACA GACATATAGA GATATATATA TACACAGCAT AGAGATACAG	100
	AGAGATAGAG AGAGATACAC ATACACACAT TCATCAACGA GAGAGAAGAG	150
40	AGGAAAGAGA GAGAGAGCGA GCACAGACAG AGATAGAGCA CACAGAGAGA	200

TCGCGCAGAT CTATACAGAG GGATATTCAC CACATTGTAT ATGGAAAGCG

	CATCT	255
	(2) INFORMATION FOR SEQ ID :912:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 196 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :912:	
15	CAAGCGAATG GTAATTACAT GGTCGGATGA GGTCCTCACT CTCAGGGGAG	50
	GGAGGAGGGA GCAGAGGTGG ACAGGGCGCA GTATAGGATT TACACTGTTT	100
20	GAAGCATCTA ACGAAGGGCA ACAGTTTTG GCAACCCAAT TCACAGTTTT	150
	GCAATTTACA AGAGATTTCT TTGAAAGAAA ATAGGAAGGC AAAGAA	196
	(2) INFORMATION FOR SEQ ID :913:	ć
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 203 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :913:	
35	ACTATCACTT AAGGGAAACA AACAACTAAC AGCCATCAAT CCAGAGGAAA	50
	GCGATTTTAC AGTAGAGTGA ACGAAACTNG AGAAGGAAAA CATCCAAGAG	100
40	GCATCTGTTT GACGCGAGCA ACGCAAGGAA CACATACCGT CTGGCAAGAA	150
40	TCCCACTAGG GCCACGAGAA ACAAAGCAAA TTAAAACATT ATCCACTACA	200

	CGA	203
	(2) INFORMATION FOR SEQ ID :914:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 262 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :914:	
15	CTGCCGAGCC ACCATGCTTG CCTGAAGCTT CGGCCGCGCC ACCCGGGCAA	50
	GGGTCCTCTT TTCCTGGCAG CTGCTGTGGG TGGGGCCCAG ACACCAGCCT	100
20	AGCCTGGCTC TGCCCCGCAG AACGGTCTGT GTGCTGTTTG AAAATAAATC	150
	TTAGTGTTCA AAACAAAATG AAACAAAAAA AAAATGATAA AAAAATCGGA	200
	TTTCCGGTTA ACACTGTGAC TTCAATTGAA ACACCTTTTT GTAGTATCTG	250
<sub>.</sub> 25	GAGGTGGACA TT	262
	(2) INFORMATION FOR SEQ ID :915:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 191 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :915:	
40	TGGGTTCTAA TGATGTGCTT GAAGAGGAAG ATTTTGATCG CACCACTGAT	50
	ACACGGAGTC TGTATTTTGC ATCCTAGAAT GATTAACCAG AAACAAAGAA	100

•	AGGAAAAAGG TAAAATCAAT AATAAGATCA GCAGCTCTGG GACACAGAAT	150
	AAAGAATGAA ATAATTTGAA AAAAAAGGCA GGGCAGGCAA A	191
5	(2) INFORMATION FOR SEQ ID :916:	
10	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 252 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
	AND ADDUDNOD DESCRIPTION, SEC. ID 1916.	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :916:	
	AGACTTGGGG GTTCCTGGTG TGTGAGGGGT CCTGGGATAG CTAGGGGTTT	50
20	TCCAGGAGTT GTCCTTTGTT GTTTGTCGTG AAGAATTATA CTTTGTGTGT	100
20	GTGTGGGTTG TCCCATGTGT ATGCGTGTAG TGTGACAGTA TATGACCCCC	150
	AGTGTGTGCA TATGTTTGTG TGGTTGTCTC TGAGTGATAT CCACCTCTCT	200
25	CTCCCCCTCT GTCTCTCTGC AGAGATATGT GTGGCGTCAC TGTACTCTTG	250
	TG	252
30	<ul><li>(2) INFORMATION FOR SEQ ID :917:</li><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 247 base pairs</li></ul>	·
35	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID :917:	

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	10.	
	GTAGGGAAGG ATGAGGGAGA TAGGAAAGCA CCTAC GAG GCAGAGAGTT	100
	TCCTGAAGGT CATGCGATCC TTTACCCTCA GAAACTTTCA GGCTGAAATC	150
5	ACCATCTCCG TTATCCCAAC AAACGCACTC TCCTACCTCT ACAAGCACTT	200
	CAAGTAAAGC AGAAATCACA CCAATACTGA CGNGCTTCAA GCGCAAC	247
	(2) INFORMATION FOR SEQ ID :918:	
10	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 191 base pairs  (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :918:	
20	ATTTGGATTC AATTGCCTGT TGCACTTTTA CATTAAGTGT TGCTTAAATA	50
	AACAAAAATA GAGCATAAAT TCAATATTCT ACTGTCTAAA CATTTTAAAG	100
25	CAATGGTTAT GCCATCATAA ACAAGTAAAA TGCACCTAAT TCGAGTCTTT	150
	TGACACCTCT TGTTTTAAGT TTCCTGTATG ATAAAGTTCT T	191
30	(2) INFORMATION FOR SEQ ID :919:	
•••	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 205 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(vi) SECUENCE DESCRIPTION, SEC ID .019.	

(x1) SEQUENCE DESCRIPTION: SEQ ID :919:

50

CAAGAGTGAG ACTCCATCTC AACCAAAAAA AAAAAGAAAG AAAAAAAGAA

	ACAACCTCCT CATTTTCAGA AGCGAACACA CCCCCGCCCC AAGATAGACG	100
	ACAGAGACCG GACTAAGATT TAACCCAGGA ACTTTTCGCT TGGGCACCTT	150
5	CGAACAACAC ACAACCCGCA AAACCATACA CGCTCCCTTG CCCGAGGCCC	200
	AACCC	205
10	(2) INFORMATION FOR SEQ ID :920:	,
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 323 base pairs (B) TYPE: nucleic acid	
,	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :920:	
20	(100) 100 <u>2</u>	
	GACAAAATTG GGACTCTAAG TATTGCGCTT TTTTTTCCTC TCCAACGACT	50
	CGTTCCCTTT CAACAAATAG CACTTCAGTC CACTGTGTAC AGAAGTAATA	100
25	CATCTCCTAT CGTTAGTTGA ATAAATTCAC ACACCGCGTT TAAGAGATGA	150
	AACCACGACT TCGTCAAGCC ACATTCGATT GCCATAAGAT TCCAAAGAAT	200
	TCTATCCTCT TAAAGCGAAC CACATGTAAC CCGAAGGTCC CCACCTATCA	250
30	AGGTTAGAAC TGATATTCAA ATTATAGACT CATTCCACTA AGCAAGTAAG	300
	CTCTAAGCTA CAGGTTGATC ATA	323
35	(2) INFORMATION FOR SEQ ID :921:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 230 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

·	(xi) SEQUENCE DESCRIPTION: SEQ ID :921:	
	AACATTGACG ACGCTAAGGA TGCCATGATG CCATGAATGG GAAGTCTGCA	50
<b>5</b> .	GATGGACGGC AGATCCGAGT AGACCAGGCA GGCAAGTCGT CAGACAACCG	100
	ATCCCGTGGG TACCGTGGCG ACTCTGCTGG GGGTCGGGGC TTCTTCCGTG	150
10	GGGACCGAGG CCACGGCCGT GGACTCTCTA GAGGCGGCGG GGATCAAAAC	200
	TATAGAAACA ACAAGTTAGA GTACAGACGT	230
15	(2) INFORMATION FOR SEQ ID :922:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 239 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	•
20	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :922:	
	TATTTTTCCT GATGTTCTCC CTTCCTCCAG TCCCCGACCT CCCACAGGCC	50
	CCAGTGTGTG TTGTTCCCGT TCCTCGTGTC CGTGAGTTCT CATTGTTCAG	100
30	TGCCCATTCT GAGGGAAAAC ATGCCAGTGC TTTCGCGTTC TTCCTCGCTC	150
	TCACCCACCT CTCAGCTTAT CGCGTCGCGC GCGCAGTATA TTCGTCTCTC	200
35	TCTCCAGTCT CTCTCGCGAC ACACATCTCT CTTTTGTAA	239
33	(2) INFORMATION FOR SEQ ID :923:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 178 base pairs	
40	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :923:	
5	GTCAGTTCAG TTGTGAACAA AGCCCTTTGT GTACGTTTTT AAATTTTAGT	50
	TCACACGATA ACAATGCTTT GCAAGTAGGT GTAATTATTT TACTCCCATT	100
	TTATGGATGA GAAAACAACA GAGAGGTTGA TTGGCCCCAC CTTCAAATCC	150
10	TGAAACCCGT CCACTCAATA AATTTTTG	178
	(2) INFORMATION FOR SEQ ID :924:	
20	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 325 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :924:	
25	CAGCTGGTCC CCCACTAAAA GAAGGGGCAG ACCACCACTA GCCAAAAGAG	50
	ATAGCAAGAC TAACATCTGG AAGAAGCGAG AGGAACGCCC ACTGATTCCC	100
	AAAAAAAAAC TCCAATGGGG ATTGTGTGTC TGCTGTCTCG TGCTGTTTAT	150
30	TCTTGCTTCT TGTTGTAAAT TGCAGTACGA ACTTAAGAAA ATGAGACTGA	200
	GCAATCTCAT GGTTCTTGGA CATGTCTCAA GCAGAGTAAA TGGTAATTCA	250
35	GTAATCAGAG AGAAAGATAC CAAGGAATGC TTTTTCTGGC CTATTCATTT	300
	ATTTTTGGGG GATGAATTTA CAGTA	325
40	(2) INFORMATION FOR SEQ ID :925:	
••	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 261 base pairs	

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(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :925:	•
10	ATGCTATGA CCTGGGACAT GGAAACAGTG ACCTCCGCGT TCTGGTCCCG	50
10	AGATCCTCGC ATCAGCGTCA TCGTGTGCAC CGGCTTGGGG GGCTGGAGTT	100
	CCGGTTTTCT TTGTTTTTTC TCTTTATTCG TCCTTTCTCA AAGATGGGAT	150
15	ACTGATCAGA ATCGTTCTGT ATATGCTTGG GACTGGATGG AAAGACTTTG	200
	AAGCAGCTGT GGGGGGCGGG AGGACACCGA CAACCAAACA GACGTGTTGG	250
	TTCCAGTCCT G	261
20	(2) INFORMATION FOR SEQ ID :926:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 173 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :926:	
	GTCAGCCTGG GCAATCACAA CGACAACAAA AGGTACAGTC TCAAGAGTCC	50
35	AACTGGGTTC AAATCCTGGC TCTGTCACAT ACTAGCTGTG TGACCTTGGC	100
	CAAGTTTCTT AACCTCTCTG TGTGTATAGT CCTTATCTGA AAATGGGGAT	150
40	AACCAACCAA GAGAGCTGAG AGA	173
40	(2) INFORMATION FOR SEQ ID :927:	

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(A) LENGTH: 223 base pairs

(i) SEQUENCE CHARACTERISTICS:

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

5	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :927:	
10	AACACTCAGA CCGGACGGGA CGAGGGATTC CCCTGCCTTC GCTTCCCTCC	50
	CTCGCTTGCT TTGTAGTTTT CCCGCACCAG CCCGCTGCCC TGCGCCATCC	100
15	TAGGGCCTCG AAGCCCGGGG AATCTGTCCC ATCCTGTAAC GGGCCGCCCC	150
	CTTNGATTTT TCTGCCCGTG CCACCGGAGG TTGCTGCGAC GCGCACCGAC	200
20	TCAGATCATT ACTACTGAAC TCG	223
20	(2) INFORMATION FOR SEQ ID :928:	
	(i) SEQUENCE CHARACTERISTICS:	
25	(A) LENGTH: 212 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :928:	
	GTTATAATTA TTTACATGCT GCAACACGTC ACAACATAAA TTTACCAAAT	5(
35	ATTTCATGGT GGGATGCTGT AGGTTTCAGA TAATAGTTTT AAGATAAAAA	10
	CCACAGATTA AGTGAAGACA CCCACAACTT TAATGACTCT ACGACTCTCG	15
	GTTGCTAAAT GCTAGAAGTC AAAAGGCAGT GTTTTTTCAG TCCTACCTGT	20
40	CATAACTTGC AT	21

200

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(2) INFORMATION FOR SEQ ID :929:

5	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 233 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	,
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :929:	
	TTAACATAAT ATTTTGAATA TATAGGGCTC ATAAGATATA TTATTAAATT	50
15	ATAAACAAAA TAATCAGGAA CTTAGTGTGG TGCCTAGTTT GATATATGAT	100
	TACTTTTGA AATGCACTAA ATTCCACAAA TAATGAAAGT ATTCTTTGTG	150
20	TATAATGTTA TGTTTGGTTA TTATGTATGG TCTTCGTATC CAAAGGTATG	200
20	ACATAACTTG AGTTTGTTTG CTTGGTATTT ATT	233
	(2) INFORMATION FOR SEQ ID :930:	
25	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 235 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li></ul>	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :930:	
35	AGTCTGTAAC GATACACCCA TAGATGTGAA TTATGTATAT TCGAGAAGGA	50
	GATCAGATGG CATCCAGAAG ATAGTTTAGA TTTCAGCACA TTCATGGTTC	100
40	AGATGCAAAA TCAGATCATC AAATAGATCC AGCAATTCAC AATCATCATA	150

GCCATATCGC GTCACGTCCG CCGCACAAAG ATCCGCACCA ATTATCTATC

	TCCCACCCC CCCAGGCATT CAGCACCCGC AAAAG	235
	(2) INFORMATION FOR SEQ ID :931:	
, 5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 221 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :931:	
15	CTATCTAGAA TTACTTATTT CACTTGAAAT GTATGGTTTC AGGAAAATTT	50
	TCAATTTAAC TTGAAGGGAT TATCTCTTAT TTTGCTTGGA ATAATGGCAT	100
20	CTCAGAAACA TGGGTTTACC TGTGATTTTT TTGTTTGGGT GAATGCTTAA	150
	AAACAAAAA AAAATTTACA TATGCATTTT ATGGATACAC ACACACACAC	200
	ACACACAC ACAAAAAACA C	221
25	(2) INFORMATION FOR SEQ ID :932:	
	'(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 333 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :932:	
	TGCTCTATTG CTATCTCCTG ATATAGGTTA TATATATATT ATGTCTTGAG	50
40	CGTCATGTCT TGTGCTACTA CACCGTGTTA ATCCCAGCTA CTCAGGAGGC	100
40	TGGAGGATCG CTTGAGCCCA GGAGTTCTGG GCTGTAGTGC GCTATGCCGA	150

	TCGGGTGTCC GCACTAAGTT CGGCATCAAT ATGGTGACCT CCCGGGAGCG	200
	GGGGACCACC AGGTCTGCCT AAGGAGGGGG TGAACCGGCC CAGGTCGGAA	250
5	ACGGAGCAGG TCAAAACTCC CGTGCTGATC ATGTAGTGGG ATCGCAGCCT	300
	GTGAATTAGC CACTGCACTC CAGCCCTGAG CAA	333
10	(2) INFORMATION FOR SEQ ID :933:	
••	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 281 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(b) 10102001. Illical	
	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :933:	
20		
	AGATTTATGG CTGCTTTCAC TTGGCTCCAT GTTCTGCTGA TAATTAAACA	50
	GTTTGTGTGT CCTGTCTTTC CTCAAAGGAA CTTGTCAACC TTTGGAATTT	100
		•
25	TGTTCATCTC AGAGGGACGT CTTAAGTACT CAGCTTTCTG AATGTTTAAG	150
	AAAAAAATAA TACTTTTCAG AATTACCTAC CTCTTTCTCA TTTTTAGCCT	200
	GGGATCAATT ATTCCCTTTC ACACTTTTTT ACATCCTAAG TAGAAATAAA	250
30	GGGATCAATT ATTCCCTTTC ACACTTTTTT ACATCCTAAG TAGAAATAAA	250
30	ACTCTTTATT CTATTTTTT TCAGTTATTG G	281
		201
	(2) INFORMATION FOR SEQ ID :934:	
	, . ,	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 266 base pairs	•
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	•	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :934:	
	AATCTTGTAT TATGTTAATA TTAAAATCTA ATAATAAGAT ACTGTAGAAG	50
5	TATTTTACAT TTTTGGGGTA TAGGCACAAA TATATACATT TAAATATTAG	100
	TAATAGAATT GAACAATTAA CTATAAAATA TTATATCATA ATAAACTGTT	150
	GTTTTATCCC AAGGGTAGAG GGACTCTAAG TAAAACTGTA ACAGAATCAA	200
10	AAGGTTACTG ATAGTTAGAA TGGGTTGAGA ACTATTTTAA CTTGGGAACT	250
	TTAAATAAGT AAATCT	266
15	(2) INFORMATION FOR SEQ ID :935:	
20	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 178 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :935:	
	GGAAAACAAA TGTAAGGAGG GAATTCAAAT ACCTAGTTAA TCTATTAACT	50
30	ACTAATAACT CATTAAATAA ATTAATAATA TTAAATGATC TGTGTGTTCC	100
30	ATGCAAATAA CAGAATGATT TCCACTGAAT AGTCATGATG GTTTAAAATA	150
	TTACTCTAAC ACCAATAACA ACACGTAA	178
35	(2) INFORMATION FOR SEQ ID :936:	
40	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 224 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	

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	(xi) SEQUENCE DESCRIPTION: SEQ ID :936:	
	ACTCAGCTCC GTGCGACCCA CATGGCCCCA GGCGGGGGA CACCAGAGGC	5
-5	TCCTCCATGA GCAGCAGGAG TGAGCGGAGG AATGTGCCCC ACAGCAACTT	100
	TCCCAGCCAA TGCCACGATG GAGATGACAA CCCCAGATCT GGGGANACAG	150
10	AAACCACTCA GAACGGCACA GGGTAACTGG CCCCAAACGC TGAAAGTTAG	200
	ACTTCACCCG AATTACATTT ACCA	224
15	(2) INFORMATION FOR SEQ ID :937:	
13	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 270 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :937:	
25	ATTITITIC CCAAGAATCC CCAACTCAAT AAAACCGTGA AACAATTGCT	50
	GGGGATGGGT AGAGAAAACC CATTTATAGT ACTTTTCTGC CTTCTTGTGG	100
30	TTTTCGGCTT TGCGATCAGG GACTGAAGAT AGAAGGAAAA AAAAAAAAAA	150
	AAAACAAACA CAAAAACATT TCAAAAGAGA AAGGAAAAAA CTTTTTCCAA	200
35	CCAAAACTCC TAAAAAACCC AAAAACAGAA CAACCAATTA AACCCGACCC	250
	GACACAACTA CCAATGACTG	270
	(2) INFORMATION FOR SEQ ID :938:	
40	(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 215 base pairs(B) TYPE: nucleic acid

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(C) STRANDEDNESS: double

	(b) TOPOLOGI: Timear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID :938:	
	AGCCTTCTCC CTATTCGATA AAGATGGCGA TGGCACCATC ACAACAAAGG	50
10	AACTTGGAAC TGTCATGAGG TCACTGGGTC AGAACCCAAC AGAAGCTGAA	100
	TTGCAGGATA TGATCAATGA AGTGAATGCT GACGACAATG GCACCATTGA	150
15	CTTCCACAAA TCTTCAACTA TGATGCCTAG AAAAAAGAAA GATACAGATA	200
15	CTAGAACTAA AGTCA	215
	(2) INFORMATION FOR SEQ ID :939:	
20	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 303 base pairs</li><li>(B) TYPE: nucleic acid</li></ul>	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :939:	
30	TGTCGTCCTT AATATTTCTN AGCCTTTTGT CATAGAGGTG GTCGGTTGGA	50
	CCTCAAAGCC TCCATCTAAT TTTTTTTGTC TATGTTTCTA TATCTCTCTC	100
35	TTTTACGCTT CTTTCCCGGA CCGTCCCCTC CCTCTACAAT TATATTTACT	150
	ACCTTCATGA TTGCTTTTTA TTATTTCTTT CACTCATCAT TATTGTTCAT	200
	TTTTTAATTA ACAATTTTTT TCATTATTCT TTTTCTTAAT TTGTAACCCG	250

TTTCTAATTT TCTCAATTAT TGCGCTTTCT CAACCCCCCT CCTTCCTCAT

300

303

40

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	(2) INFORMATION FOR SEQ ID :940:	
5	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 330 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :940:	
	ACACTATTTT CAAAAATCCA AATAAAAGTG CAGTTTCAGA CTTTTTAAAA	50
15	AAACACCGTT GACCTGTCTT AGTTGTACAT TCAGAAAATG TAGCCTCGAG	100
•	CGTTTGCATG CAACACTGCA TATTTTTTCT AATCAGATTA ATATGAGTTT	150
20	TAATGTTTAG CATGAACTAC AGCTAAGGAT AAAAATTTTA AAGTAGCTTT	200
20	CATAGTCTAG ATTCCTGGTT TCATAATGCT TTATGTAGTA CATTTCAGTT	250
	TGCTTTGCTT TGTGGAGACT TGCGCGTATT TTCTTTTGCT TGTTTGTTTA	300
25	TCGCCAGGCA GCGCTGTTCG AACTGTGAGA	330
	(2) INFORMATION FOR SEQ ID :941:	
	(i) SEQUENCE CHARACTERISTICS:	·
30	(A) LENGTH: 107 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :941:	
40	TTTATTTCAG ATAATTTTAT GTAAACAAAT TAAGAGTTAT TCATTCAAAT	50
40	TTTTGGCAGT GTTAATCTGT AAATGATGAC TTGATGTACA GAAAATGCAT	100

	TTTTGCT	107
	(2) INFORMATION FOR SEQ ID :942:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 126 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :942:	
15	CCACAGCATA CACACCTTGG AAACCAAGAA GACTCTTTGT GTGTGTATGT	50
	GTGCGAGACT GACGCGTCTC TACGCGCTCT ATGGGGGGGAG ATTTGGTTAT	100
20	TTCGGCGTTA CACCTCCGGT GTTCTC	126
20	(2) INFORMATION FOR SEQ ID :943:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 155 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :943:	
	ACTGAACAGC CGCTGGTTCC AGAACAGGCA CAGAAGGCTC CAGCGCTAGA	50
35	AACAACTGGC ACAGGAATGG TAACAATAGT CTGGCTCAGC CACAACAGGA	100
	GGCTCCGGGA CAGTCACAAC CGAGAGCTTC CAGGACAGTT ACAGTCTGTA	150
40	AGCTC	155
	(2) INFORMATION FOR SEQ ID :944:	

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(i) SEQUENCE CHARACTERISTICS:

	(A) LENGTH: 287 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :944:	
	CGTGAGGAGC AGGTACCATT TTTAGTAGTC ACACAATTCC ACCTCCTGTT	50
	TTTACTACTG GCAACTTCTA CTTGAGAATA ATGTTCTGAA AATGGAGGTG	100
15	GGGGGGGTT TGGAAGCAAA CACATTTGGG GTTTTTAACC AATTGTTAGG	150
	TTCTTTTAT TTAGGGTTGT GCAGGGAACT GTTGGGAGGT TTCTTTAGGT	200
20	GGGATGGGGG GACTGGGTGT TGGTTTTTGG GGGCTTTTTG GGACGGGTTT	250
	TATTTTGTCC CTTAACTTGG TTTGTTGGGC AGGTGGG	287
	(2) INFORMATION FOR SEQ ID :945:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 149 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :945:	
35	ATCATTGATC AATGATATGG TTTGGATTAC TGCCCCGCCC AAATCTCTTG	. 50
	TCCAATTATA ATCCCCAGCA TTGGAGGAGG GGCCCGGTGG GAGGTGATTG	100
40	GATCATGGGC ATGGACTTCC CCCTTGCTGT TTTCGTGATA ATGAATTCT	149
	(2) INFORMATION FOR SEQ ID :946:	

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(A) LENGTH: 261 base pairs

(i) SEQUENCE CHARACTERISTICS:

(B) TYPE: nucleic acid

5	(C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :946:	
10	TTTAAACTGC AAATAGTCGT TACAAAAAGT TTTNNNNNTT CTTTTAAATA	50
	AATTTCACAC AAAGAAAGAG AAATAGAAAG CGACGGTAGT GACCAGCAAG	100
15	AGGAATAATA ATTACATTCA TCTTAATGTG TGTGTGCCAG TTCTGTTTAC	150
	ATTAACATTG GAAAACTCCA GACCTGGACA CCAGAACCTC AAATCTGTGA	200
20	GTGGAATGTC TTGAGATGGG CACGCTGGAA GTCAAAGGGT TTCTCTTTTT	250
20	TTTTTTCCC C	261
	(2) INFORMATION FOR SEQ ID :947:	
25	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 264 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :947:	
35	CTTTAGGAAC TGTCAGCATG TTGTTGTTGA AGTGTGGAGT TGTAACTCTG	50
	CGTGGACTAT GGACAGTCAA CAATATGTAC TTAAAAGTTG CACTATTGCA	100
40	AAACGGGTGT ATTATCCAGG TACTCGTACA CTATTTTTTT GTACTGCTGG	150
	TCCTGTACCA GAAACATTTT CTTTTATTGT TACTTGCTTT TTACACTTTG	200

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	TTTAGCCACT TAAAATCTGC TTATGGCACA ATTTGCCTCA AAATCCATTC	250
	CAAGTTGTAT ATTT	264
5	(2) INFORMATION FOR SEQ ID :948:	
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 149 base pairs	
10	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :948:	
	CCTCGACTTA CCACGGGTGA TCCCAGAATG GACTATCAGC GGTGTTTTGA	50
20	GCCAGGTTGA TTGAGCACTG GGCTCCAACT TATTGTTAAT GAGAAACGGC	100
20	CCAACTTGGA CCATGACTTT CCCATTTGCA GGTCTTAGAA TAATTTTTT	149
	(2) INFORMATION FOR SEQ ID :949:	
25	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 242 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li></ul>	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :949:	
35	CGCTCAGGGT GGAAGTGGCC GGGCGCGTCG AATGTGCCGA GCTGGTGCGA	50
	GTGGGCGAGC AGAGCGCCTT GAGGGTTGAG CATCTTCTGG ATCCAGCAGA	100
40	GGCCTCCCAG GAGGGGAGCC AGGTGGCTGA AGGCAAGCAC TTTNNNNAGG	150
40	TTCTAGTCCC CTTTTTAGAT CCTAGGGGAC TGGAGATTTG GCACCTTCCC	200

TTCTAGTCCC CTTTTTAGAT CCTAGGGGAC TGGAGATTTG GCACCTTCCC

	CCAAGGCTTG GCCTCGTGCC CTATAGGGTG CCCCCCTCTC TT	242
	(2) INFORMATION FOR SEQ ID :950:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 153 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :950:	
15	ACTCTGCCTG CACTATAAAA TGAACCAAGG AGGATCCAGT TTGCTGTCTG	50
	CACTGACAGA TITACAGACA GGAAAACAAA GCCTTACTTA CCAGGAATCC	100
20	AAAGTTTATA CATGAAAATT TAAAAAGGGA GTCTATGCAA AGCGGAGTTC	150
20	AGG	153
	(2) INFORMATION FOR SEQ ID :951:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 128 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :951:	
35	TGCGGGAGTC TCACTGGGGG GGGGACACCT GTGCAAACGC GTAACGCAGG	50
	TTGTTCCTAA GGCGAGCTCA GGGAGGATAC AGAAAACTCT CCTGTGGTGC	100
	TATGAAATGT GGCGTAAAAA GCATTCTG	128
40	(2) INFORMATION FOR SEQ ID :952:	

(i) SEQUENCE CHARACTERISTICS:

	(A) LENGTH: 213 base pairs	
	(B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :952:	·
10	GTTGGAAATT TCCCTAAAAT CACCTACCGA TTACCCTTGA TTTCCCTTTG	50
	TTTTCAGTTT CTCAAAACGA ATGAAATAGA ATATAGCAGA ATGTTAACCC	100
15	ATATAAAAAT AAAGTGTACC CAAATATTGT AATGTATATT GCTGCTCTTC	150
	TTCAAATTAA ATAAGGGTTT AAAACCACTT AATTGGTAAT ACAACATCTC	200
20	AATTGATACA AAT	213
	(2) INFORMATION FOR SEQ ID :953:	
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 236 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :953:	
	GCAGCAGTTT CTTTGAAAAT TTGGACCAGA AGGTGCATAA CAAGTTGTTC	50
35	TGCAGAAGTT CTTATCTGAT ATTCTTAGGG AGCTATCCTG CATGTAATCT	100
	TCATTATTTT TTTTCTCTAC CATCATGTAG GCATACTCAG TGTAGACTAC	150
40	CACAATCCTG GATACCTCTC TGCTTAGATT TACAATCTCT GCTAAGATTT	200
	GCCACTGCAG AAAGTGTAGT ATTTTCACTA CATTAT	236

200

40

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	(2) INFORMATION FOR SEQ ID :954:	
5	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 217 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :954:	
	GCAGCAGTTT CTTTGAAAAT TTGGACCAGA AGGTGCATAA CAAGTTGTTC	50
15	TGCAGAAGTT CTTATCTGAT ATTCTTAGGG AGCTATCCTG CATGTAATCT	100
	TCATTTTTT TTTCTCTACC ATCATGTGAG GCATACCCAG TGTAGACAAC	150
20	CACAATCCTG GAAACCTCTC TGCTTAGATT TACAATCTCT GCAAAGATTT	200
20	GCCACTGCAG AAAGTGT	217
	(2) INFORMATION FOR SEQ ID :955:	
25 30	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 256 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
,	(xi) SEQUENCE DESCRIPTION: SEQ ID :955:	
35	AGCAGCGACC GCGCTCACTG GCTTTTTGTT TCTGCTTGGG CCTTTTCTGT	50
	TCAGTCCATG CTTGAACTAC TCCACCCCT TAAATCCAAC GTAAAAACCA	100
	GTCTTTTCTG TGCTTGTTCT CTGTGCGTTA ATGCTTTTC TTATGCTTGC	150

TTATTGAAAT ACTGTATTTT CATTGTCCCC TGGCCAAAAC ATCTGAGTCG

	TGAAACCATT TTAGATACTC TACTTTCTTA CTGTGTTACG TGGCATTTTA	250
	TGCTTG	256
,5	(2) INFORMATION FOR SEQ ID :956:	
÷	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 194 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :956:	
	CAAGCAATTG AGAGACTTTT TTCCTGTTAT TTTTCTACCA TTTATTTCTC	50
	ATTTCATTAT ATTATGGTCA GAGAATATAT TTTGAATGAT TTCATTTÄTT	100
20	AATTTTTAAA AATAACATTA AAAAATTTTT TAAAATGTGA ATATACCACA	. 150
	ATACAGTATA AAGATTGTAC ATTCTGTTTT TGGACAGTTT TCTA	194
25	(2) INFORMATION FOR SEQ ID :957:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 196 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :957:	
33	(VT) physican physican physican	
	ATCTATTTT CTTGGTCTCA TACTCAGTTT TTTATGTAGT CACTTAGTAA	50
40	ATAACCTAAA AAAACATGTT TTCTCCACAC TAATTTTAGG GTGAATTCCT	100
40	CATTTCGCTT TTCAGATCAT GGGGTGAGGG GGATGGTTCG TGTGTGTGAG	150

	GAACTGAGGA ATCAGATGGA AAACAATGCC TCTGCTCCTT TGAGTA	190
	(2) INFORMATION FOR SEQ ID :958:	
5	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 105 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li></ul>	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :958:	
15	GCGCTCAGCT GGAACTTCCG ATCTATTTTT TCTTGGTCTC ATACTCAGTT	50
	TTTTTATGTA GTCACTTAGT AAAATAAACC TAAAAAAAAA CATTGATTTT	100
20	TTCTG	105
	(2) INFORMATION FOR SEQ ID :959:	
25	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 261 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	
30 .	(xi) SEQUENCE DESCRIPTION: SEQ ID :959:	
	GACAGCGACC GACACTCAAT GGAATCCCGA TTCCATGGAA ATGGAAAATA	50
35	GCTCTATTTA TACAGCAAAT TCAAATACAG TAGCTTGCTA AGCAACTTCA	100
	TAATTCATTA ACACTCGATG GCAGAGCAGA TAGTCACAAT TACTAACGAT	150
40	TATCATGATC TGCATTCTTG ACAAGTATAC TATGGCGAGA TAAATCAAAC	200
	TCAGACGATG ATAAGCAA'AC TCAAAAATGA AAATGATGAT GCCAACTAAG	250

	CTTTTGTTAA A	261
	(2) INFORMATION FOR SEQ ID :960:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 188 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :960:	
15	CACAGTTTTG TTGACTAAAC TCTACAGAAG TCAGGTATTG GGAAGGAGAA	50
	TCGTTTCTTC TTTAGAGGAG TAGGTTTTAA CCATGTTAAA TTTCCAAGAA	100
20	TARATTTATT TATCACCTCT ACACAGCGCA GACCATTTCA GGAAAATAAA	150
	TAATTTTCGA TTCAAGTACT ATACAAACTT AACGATGG	188
	(2) INFORMATION FOR SEQ ID :961:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 191 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :961:	
35	ACTITCGCCT ACCCGGAGAG GCCCAGAAAA TTGACCAGAT GATGGAGGCC	50
	TTCACCCAGC ANTACTGCCT ATGCAACCCT GGAGCTTTTC AATCCACAGA	100
40	CACACGCTAT GCACTGTCCT TCGCCATCAT AACGCTCAAC ACCAATTTCT	150
	ACARCCARAR AGCCAGAGAC ARACCTGACC TARAGCGCTC C	191

	(2) INFORMATION FOR SEQ ID :962:	
. 5	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 191 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :962:	
	CCAAGGCAGA GTTTATTAGG TTTATGCTTT ATATTTATAT ATAAGGTTTT	50
15	ATTCATGTTA AAAACTTAAA ACCAACGGAT TATGCAAAGT GATAAGTGTA	100
	TCAATGAATA TACAACTGAC TGGATTTTAA ATATACACAA ACCAGTATAC	150
	CCCCAGTACT TAAATGAAGG CACTCAGTAT ACACCAAAAT T	191
20	(2) INFORMATION FOR SEQ ID :963:	
25	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 178 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :963:	
	AGCAGGCCAA AAGCCCAGGT GAGGCCCAGC AGGAACAGCA GCCCAATGCC	50
35	TCCTAGCACT CAAGATCCAC CATAGTCCAA GCAACTGCAG TTACACTTGA	100
	GTACAAATAC GCTCCCGACA GCCTCATGCA GCGACACCCT AAAGGACACC	150
	CGAACACCAT CAATAACCGA ATAGACTA	178
40	(2) INFORMATION FOR SEO ID :964:	

488

(A) LENGTH: 199 base pairs

(i) SEQUENCE CHARACTEPISTICS:

	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :964:	
10	·	
	ACTTTGCAGT CCTCACATCA CAAATAGAGT AAAAGATTCC CAAAAGGAAG	50
	GGGATCCTTT TGACTGCCAG ACGCGGGAAG GAAAGAATGA AATTAAAGAA	100
15	TATCCTTTTA AACACACAC TCGACACAAT TTTCCACTCT GCTAAGGGAT	150
	CACAAAGACT AAGACGCGGG CAGACTCCCC ATAAGCCACG CTTATAACC	199
		•
	(2) INFORMATION FOR SEQ ID :965:	
20		•
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 217 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(0)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :965:	
30	ATGGAGCAGG ACCTGCGATG TTCTGATGGA TTATACCCAC AGTGTATTTT	5Ò
	GGCACATCTG CCAAAAGCTA CAAACAACCC CTAATAATTA CACACTACAG	100
	AND AND ASSESSMENT OF CARCEAUTH CARTEST TO TO THE TOTAL TO THE T	150
35	ATAGTGAGAA GCGTCCTACC CAGGAGTCCT GAATGTGATC TGAGTATGCT	130
	CTAAGGCAGC CCCAGGAAAA GCAATCCAAT CCCTTTCTCC TCGCCTTTAA	200
40	ACCTGCAGGT TGGGGCT	217
40	(2) INFORMATION FOR SEQ ID :966:	

489

(i) SEQUENCE CHARACTERISTICS:

	(A) LENGTH: 175 base pairs	
	(B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :966:	
10	(12)	
	ATTTGCGACC AAAATCATCT GGGTTTATAT TTGAAAAAAC CTTGTTTTCC	50
	AATTTAAAAA TGCCAAGAAA GTTGTGAATA CCGTTCATTA TCACTAGGAT	100
15	CANGANANG CANATGGTTT ANGTTTTTAC ATAGGANATC TANGANCTAC	150
15	CAMBAAAAAG CAAAIGGIII AAGIIIIIAC AIAGGAAAIC IAAGAACIAC	130
	TCATCAATAA AACGCAACAC TATCA	175
	·	
	(2) INFORMATION FOR SEQ ID :967:	
20		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 92 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
23	· ·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :967:	
30		
	AGGGGTTCAG GCCTGGAGTC AGGGAAGAAG GGGAAAGGGG CAGATAGCTG	50
	GGGGACAAGG AAAACCTGGC GCCCCCCACC GCGAAAAACA CA	92
35	(2) INFORMATION FOR SEQ ID :968:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 208 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

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	(xi) SEQUENCE DESCRIPTION: SEQ ID :968:	
-	GTAATATTAG GGACATGAAT GTTAGTACAG TAATTACCAC ACATGGAAAA	50
5	TATTGTTCAG CAGGAAAAGT AAAACTTTCA AAAAATTCCC TAAAGATCCT	100
	ATTCAATAAA CAATTTTAGA TTTAAGGAAC CACTTACGCA AAACTCGAAC	150
10	AAATAACCGA AAACTCCACC TACCGCGCAA TACTCAAAAA CACAAAAATA	200
	CTACTAAC	208
15	(2) INFORMATION FOR SEQ ID :969:	
20	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 256 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :969:	
	AGTGGTTGGT GTTTACTGGA ATCTTGTTTT TTTTTTTTCG GTTTTTTTGA	50
	CTACTCGGGG GGTTTTCCTT TTTTACAGGA ACTAAATCAA CAAACTTTTT	100
30	CGATTCCTCA ACTITAGATT TTTATTTTTT TTGATTACCA TTTACTTTTC	150
	TTCATTTAAA ACTTTTAACG CCTCAGCCTT TTTCTTAGGC CAAGGCCTTC	200
35	CACCAAGGAT TTACTCCGGG ACGGATCTAA CTGGATTTTC CGAGGTGGGT	250
	TTAAGA  (2) INFORMATION FOR SEQ ID :970:	256
	1-7	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 240 base pairs(B) TYPE: nucleic acid

491

(C) STRANDEDNESS: double
(D) TOPOLOGY: lin ar

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :970:	
	AATCTATTTT CCTTGGTCTC ATACTAAGTT TTTTATGTAG TCACTTAGTA	50
10	AATAACCTAA CCCGCTTGTT TTTTCCACAC TAATACTAGG GCGAATTCCT	100
	CATTITATIT TIAAGATCAT GGGGCGAGGG AGATGATCGC GAGCACGAGG	150
15	ACCTAAGACA TCAGATGAAA AACAATGCCT CTATTCCTTC AAGTATAATA	200
15	AATGATACCC GAGAGTAAAG AGCTACACTT CGCACCTCTA	240
	(2) INFORMATION FOR SEQ ID :971:	
20	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 184 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :971:	
30	ATCTATTTT CTTGGTCTCA TACTCAGTTT TTTATGTAGT CACTTAGTAA	50
	ATAACCTAAT CCGCTTGTTT TCTCCACACT AATCCGAGGG TGAATTCCTA	100
35	ATCTAGCTTT TCAGATCATG GGACGAGGGA AATGACCGCG TGCGCGAGGC	150
35	CCTAAGGAAT AACATAGAAA ACACCGCCTC TGCT	184
	(2) INFORMATION FOR SEQ ID :972:	
40	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 234 base pairs	

(B) TYPE: nucleic acid

492
(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID :972:	
	GTGTTCTCTA AGGTGATACC TTTTAATTTT GAAAGACTAA ATAATTTTAA	50
10	TCGAGAATTT CCAGTCTTTC AGTCTGATCT ATTTAATTCA CTACTTGTTA	100
	CATARTCCAG TGAAAACTCT ACTTGTTGAA ATTATGACAT AAAGATCTTG	150
	CAGCTTTATT TGAGTATTTG TTCTTTTGTG TAGTTTCCAT CTTTTAAAAT	200
15	ATTTAAAATA TTTTCAAGGA TAAAAGTATT ATCT	234
	(2) INFORMATION FOR SEQ ID :973:	
20	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 197 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :973:	
30	TTTTCATCTA AAGGAGAGAG GCAGGCTCAG CTCCTGAAGG TCGCAGAGCC	50
	TCAGTAGTCC TCCTGAGTGC GTCTAACTAA CTACCATCAA AAAACAAACA	100
	AAAAAAACAT CACAAAACTG AACTGCCGCC ATCACCACTA CACCAAGTAT	150
35	GTGATTGAAT TATTCAATGA TCTGTTTTCG CGGTAGTGAC CAACANC	197
	(2) INFORMATION FOR SEQ ID :974:	
•		

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 244 base pairs(B) TYPE: nucleic acid

493

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :974:	
	AGCAGGAGAT TTTTTTAATA ATAAACANCA ATGGAGAGGT GGAAATAGAG	5
10	ATGGAAAAAC AGGATCAAAG GAGCAACATA TCCAGTGACT TAAAAAAAATA	10
	ATCACACGTG GCAAGAAGTT TTCTAAAGTA AACTGTATGT GGGGAGAAGC	15
15	ATACAGAAAA AAACGAAATA CATACACCCC CAGGTTTGAA AGAAAATAAT	20
13	TTTGAGTTGT ATCAATCTAT CGATATCAAA GAATGAATGA CCGC	24
	(2) INFORMATION FOR SEQ ID :975:	
20	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 330 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :975:	
30	TTTTTTTTC TGAACACTTT GCTTCACACC TTCTCATATT CACGGTTATG	5
	AATTCTCCTG ACTATATCTA TTGTAACCCA AAACAGCAGA CTGTATTTAG	10
35	AGACCCATTA GAGATTTCAT GTCTATATGC CCAGAGCCTG ATATAATGCC	15
33	ACCTTACTAT ACACATAATA TAGAATCTGA GGACTACGTT AACTGATACA	20
	TGTTAAGTAT CCTGCAGAGA GCTGGCACAT TGAATGTGCT CAATAATCGT	25
40	TAGCTTTAAG TATCTACCTC AAAGGGCTAC TGTGTGACTC CAATGAGATA	30
	ATCTCCAATC AACCCTTTCC TGTAATATTG	33

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(2) INFORMATION FOR SEQ ID :976:

	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 200 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :976:	
	(112) 01200111111111111111111111111111111	
	TGGTGAAAGG AATAAGCAAC TCAAGGTAAA TAAAGAAGAA AGATGAAGAT	50
15	TCTTAGAATC GTAGAAAGAC TGCAGGGGGA AATAATTAAA GCAGCTTTAT	100
	TCCTTACGGC ATTCATCATT CGTCGAGCTG GAAAGCACTG ACAACTTTGT	150
	AATGAGTTTT TTGCGCTTAA CTCTGTCAGG TGATTTATAT GAATNACTTA	200
20	ANIGAGIIII 11000011MI OTOTOTOMOO TOMITIMINI OMITAMOTIM	200
	(2) INFORMATION FOR SEQ ID :977:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 296 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :977:	
	AAAGGACAAT TTAATATAAA TCTATGTTTG TGCATTTCTG ACAGGCCATT	50
35	ATTATCTGCT TTGACAAAGC CTTTCTGAAA CGCAGTGTAC AATGAATCTT	100
	>> PO > POPE > TO > > OO > OO PRINCED > > OO POPE > OO > OO POPE > OO > OO POPE > OO > OO	150
	AATGATGTTA TGAAACGAGC TTTGCT 3 GCTCTTGATT GGAGCTTCCG	150
	GTATGTGATG ACGGTATGTG ATGTATGCAT GGATGTACLI AACTGTGTTT	200
40		
	AATACTCTGA ATTTTAATTA GAAAAAAATA CAATAGCAGC AAGGCCCTGG	250

	TTTCTAAGCT GCATACTTTT ACTAACGCGG GACATGAGCA AATGCC	296
	(2) INFORMATION FOR SEQ ID :978:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 228 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :978:	
15	GAATCNCGCC TGACACATAG AATGCATAAA CGAGGGGGGT CCTTCTGCAG	. 50
	ATACTCTAAT CACTACACAG CTTTCTCTAT AAAACTACCC ATAAGCCTTT	100
20	AACCTTTAGA GAAAAATGAA AAAGGTTAAT GCTTGGAAGC CGGGGGAGGA	150
	CTGACCACTT CATAAGCCAG TACGTCTGAG CTGAGTATGC CCCCAGAATC	200
	CAGCCACTAC TGATAATTCA CAACGGTA	228
25	(2) INFORMATION FOR SEQ ID :979;	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 171 base pairs	
30	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :979:	
	CGTACAAAAG CGCTTTGGAG ATGCCAGAAA AAACCCTACG GGAGGGTTAT	50
40	CCCCCTGACG CTAGGCCATG ACACAACTAA ACTTCAATAC ACCAGGACTA	100
- <del>-</del>		

	CCAGGCAAAA CCAGAACCTG A	171
	(2) INFORMATION FOR SEQ ID :980:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 241 base pairs	
	(B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :980:	
15	TGATTCCCCA TTTCCCTGGA CAGGGCAGAG TCAAGCCGAG AAGGAGGAGC	50
	CACAGGCCAG CTGTTAATGA GACACTAAAT AAAACGTTCA GTATTCATAC	100
20	CTGTGGAACA TGGGTGAACC TTTCTGGTAA CTCGATTTTT CACACCAATG	150
	ACAGCAAATG AGAAAGTGAG AGAAGCTAGA TAAATGTTTT TAAAGCATTA	200
	CTGCAGTGGA AAATAACTGC ACTCTCAGGA CACAGCACTG T	241
25	(2) INFORMATION FOR SEQ ID :981:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 227 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :981:	
	TCACTGCAAT CACGGTAGCT TCGCCCATTG CCTCTTCAAC CAGGCACATA	50
40	CATCGAGAAG TTGAACCTGC ACTTTATTTC ACACTGAACA GACTTACCCC	100
-	GACAACAACA CCTCCCCAGT GGGACAAACC TACCCCACCT CCCCACACTC	150

	TACTCCCAGC TAACGTTCCC TATAATCATC ATGACCCATT AAACATTTGC	200
	AAAACCACAC TTCAACCCAC AGGAAGA	227
5	(2) INFORMATION FOR SEQ ID :982:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 205 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :982:	
	CGTTGTCGCC ATGGTAATAC CGCTCAGTAC GGGAGGACCC ACAGGCTAAG	50
20	ACACTCGGAG CACGAGCTCG CCTGAGGGAC CAACGAGGCG AAGCCACAAT	100
	CCGCGAACTC ATGACTGACC CCTTCTAAGT AAGAATCCCA CCCAGGCAAA	150
	CCAATCCGAC AACCGAAATA GCGCAGGCAC CGCCAAATTC AAGGCGCCCC	200
25	AAAAG	205
	(2) INFORMATION FOR SEQ ID :983:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 204 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :983:	
	AGCAACCGGC ACTCAAGTGG AATCCCGAAA AAGTGATTTA AAAATGATCT	50
40	TACCTGTACC AGAAAAGCAA AATTAAAGGA AACAAAATAA GAACCATAGT	100

•	CCCAAATGAC ATTTAACCGT ACATACAGCG ATAACATGTT CAAAATCCAA	150
	CARATARCGC RACTTCCAGA CGTARATATC CGCCACTCGA TTCCCTCCCC	200
5	CCCT	204
	(2) INFORMATION FOR SEQ ID :984:	
10	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 168 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :984:	
20	ATTTGTATTA GAAAAGTAAA GTTGAAGGAA ATAAAATTTG CATTCTTGTT	50
20	TTAAGTGATC TTTAATTGTA TATATCGCGG TAGTATGTTC AAAATCCACT	100
	AAGTACTGTG ACTTTTAGCT GCAAATCTTT GCTCTTTGCT TTTTTTTTC	150
25	TTTCTCCCCC CTCCCCAG	168
	(2) INFORMATION FOR SEQ ID :985:	
30	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 350 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :95	
40	CTCAGCTGGA ATGTCCGGTG CCTGCTAGGT GCATGGCCAG AGAAGCATGG	50
	GCTGGGCCTG GGCACAGGAG GAGCAGCTGC TTTGGTCGGG GTGGAGACTT	100